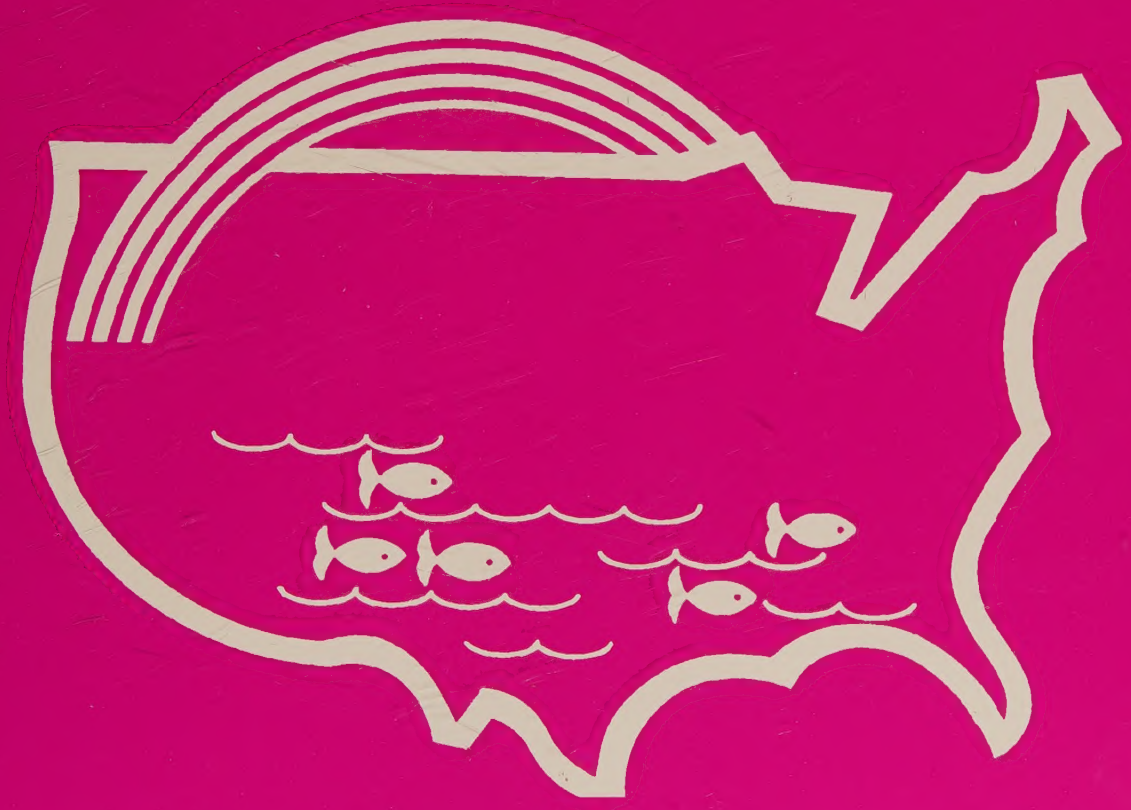
Current Fishery Statistics No. 9800

Fisheries of the United States, 1998

July 1999



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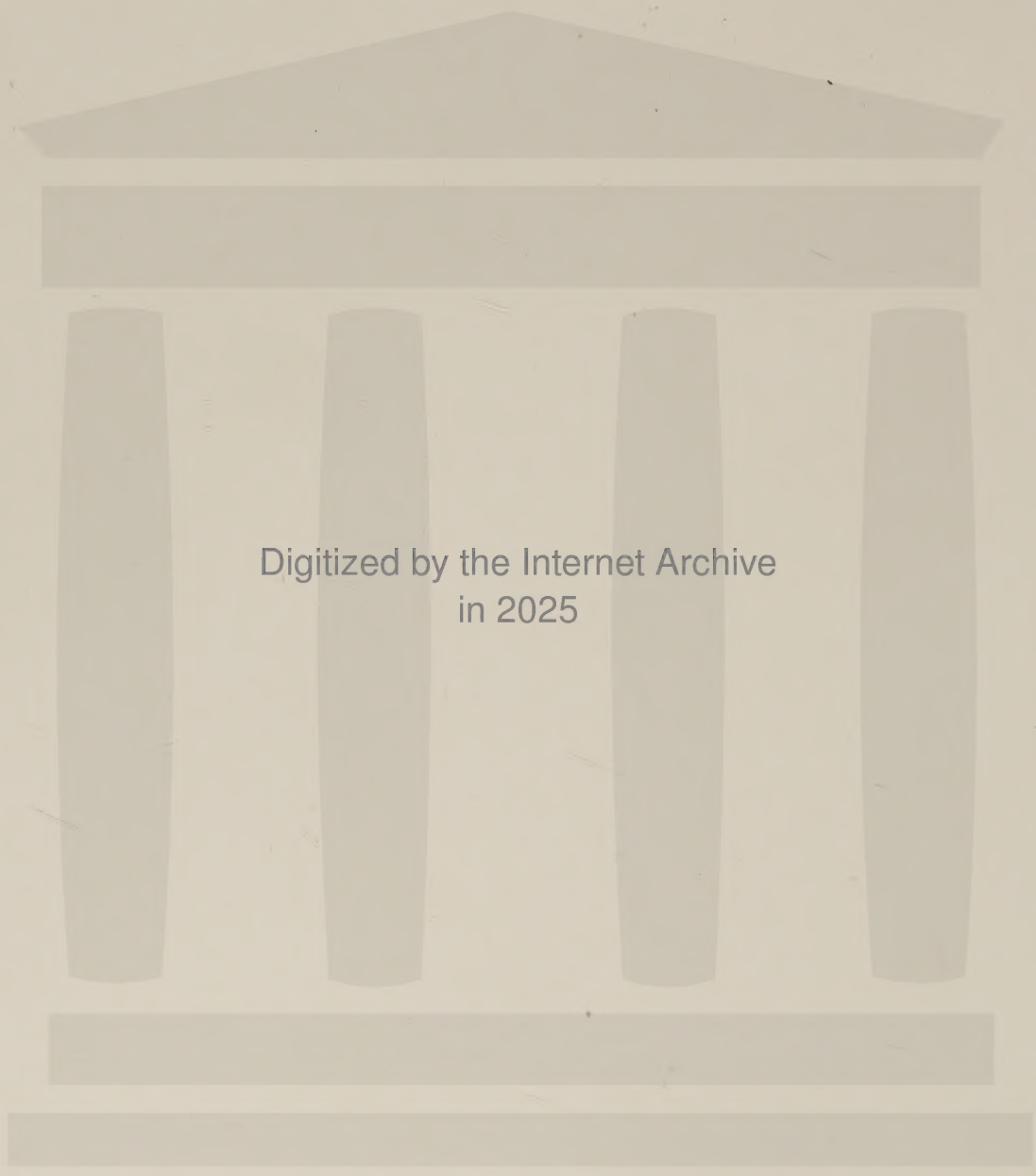

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Current Fishery Statistics No. 9800

Fisheries of the United States, 1998

Prepared by:
Fisheries Statistics and Economics Division

Mark C. Holliday, Chief
Barbara K. O'Bannon, Editor

Silver Spring, MD
July 1999

U.S. DEPARTMENT OF COMMERCE
William Daley, Secretary

National Oceanic and Atmospheric Administration
D. James Baker, Under Secretary

National Marine Fisheries Service
Penelope D. Dalton, Assistant Administrator

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PREFACE

FISHERIES OF THE UNITED STATES, 1998

This publication is a preliminary report for 1998 on commercial and recreational fisheries of the United States with landings from the U.S. territorial seas, U.S. Exclusive Economic Zone (EEZ), and on the high seas. This annual report provides timely answers to frequently asked questions.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS Fisheries Statistics and Economics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, and the Food and Agriculture Organization (FAO) of the United Nations.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial landings, employment, prices, production of processed products, and recreational catches are preliminary for 1998. Final data will be published in other NMFS Current Fishery Statistics publications.

The Fisheries Statistics and Economics Division of NMFS takes this opportunity to thank states, industry, and foreign nations who provided the data that made this publication possible.

Program leaders of the field offices were: Gregory Power, New England, Middle Atlantic, and Chesapeake; Scott Nelson, National Biological Service Science Center, Great Lakes States; Nelson Johnson, Guy Davenport, Maggie Bourgeois, and Margot Hightower for the South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and David Ham, Alaska.

NOTES

The time series of U.S. catch by species and distance from shore included in this year's "Fisheries of the U.S." is estimated by the National Marine Fisheries Service.

As in past issues of this publication, the units of quantity and value are defined as follows unless otherwise noted: U.S. landings are shown in round weight (except mollusks which are in meat weight); quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census; the value of the U.S. domestic commercial landings is exvessel in the Review Section on important species actual and deflated exvessel prices are shown. The deflated value was computed using the Gross Domestic Products Implicit Price Deflator); the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (International Trade Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics and Economics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes comments or suggestions that will improve this publication.

Address all comments or questions to:

Fisheries Statistics and Economics
Division, (F/ST1)
National Marine Fisheries Service, NOAA
1315 East-West Highway - Rm. 12340
Silver Spring, MD 20910-3282
PHONE: 301-713-2328
FAX: 301-713-4137

Members of the Fisheries Statistics and Economics Division in Silver Spring who helped with this publication were: Daryl Bullock, Rita Curtis, Kim Dawson, Josanne Fabian, Karen Foster, Amy Gautam, Kirk Gillis, Laurie Hamilton, Emily Hanson, Rob Hicks, John Hoey, Deborah Hogans, Mark Holliday, Steven Koplin, Alan Lowther, Terri Muller, Sharon Newman, Barbara O'Bannon, Maury Osborn, Liz Pritchard, Warren Schlechte, David Sutherland, Glen Taylor, William Uttley, David Van Voorhees, John Ward, and Lelia Wise. Summer students Michelle Carhart, Elinor Lichtenberg, and Melissa Millikin also assisted.

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REVIEW

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were 9.2 billion pounds or 4.2 million metric tons valued at $3.1 billion in 1998--a decrease of 649.3 million pounds (down 7 percent) and a decrease of $319.1 million (down 9 percent) compared with 1997. The volume of 1998 U.S. landings decreased, especially in Pacific waters affected by El Nino, for the following major species: cod, yellowfin flounder, herring, rockfish, squid and seaweed (kelp). The decreased value in 1998 was associated with decreased landings of several major species and lower prices for cod, herring, menhaden, pollock (walleye), tuna and some species of flounders. Finfish accounted for 86 percent of the total landings, but only 46 percent of the value. The 1998 exvessel price paid to fishermen was 34 cents compared to 35 cents in 1997.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred onto foreign vessels (joint ventures) provided an additional 400.8 million pounds (181,800 metric tons) valued at $165.9 million. This was a 6 percent, or 22.2 million pounds (10,100 metric ton) increase in quantity, but a decrease of $19.6 million (23 percent) in value compared with 1997. Most of these landings consisted of halibut, sea herring, Atlantic mackerel, snapper and tuna landed in Canada, Puerto Rico, American Samoa and other foreign ports.

Edible fish and shellfish landings in the 50 states were 7.2 billion pounds (3.3 million metric tons) in 1998--a decrease of 75 million pounds (34,000 metric tons) compared with 1997.

Landings for reduction and other industrial purposes were 2.0 billion pounds (916,500 metric tons) in 1998--a decrease of 22 percent compared with 1997.

The 1998 U.S. marine recreational finfish catch (including fish caught and released alive (discarded)) on the Atlantic, Gulf, and Pacific coasts was an estimated 312.3 million fish taken on an estimated 60.3 million fishing trips. The harvest (fish kept) was estimated at 135.5 million fish weighing 194.7 million pounds.

There were significant reductions in the 1998 landings of many Pacific coast fisheries that may be associated with El Niño. The 1997-98 El Niño was the strongest on record and had spectacular impacts on weather, marine ecosystems and fisheries. El Niño, Spanish for little boy or Christ child, is the name associated with the appearance of unusually warm eastern and central tropical Pacific ocean waters. The El Niño phenomena results from interactions between the surface layers of the ocean and atmospheric circulation. During an El Niño the western Pacific trade winds are weak and don't produce the upwelling of cool, nutrient rich waters in the eastern Pacific. This causes a rise in sea surface temperature which reduces primary productivity, adversely affecting higher trophic levels of the food chain including commercial fisheries. Ocean temperatures averaging 4-8 degrees F above normal were recorded in an area exceeding 9.5 million square miles during one El Niño month. These anomolies force fish to migrate in search of cooler waters and food. Many fish, unable to migrate, die from lack of food or unbearable temperature elevation. Those species that are able to migrate may also suffer because of drastic temperature changes when they are in water not affected by El Niño. These temperature- and food-driven changes in species distributions result in marlin, swordfish, mackerel and turtles being caught in waters they normally do not inhabit such as off of the Pacific northwest coast of the U.S.

WORLD LANDINGS. In 1997, the most recent year for which data are available, world commercial fishery landings and aquaculture were 122.1 million metric tons--an increase of 2.2 million metric tons (up 2 percent) compared with 1996.

REVIEW

China was the leading nation with 28.7 percent of the total harvest; Peru, second with 6.4 percent; Japan third with 5.5 percent; Chile, fourth with 5.0 percent; and United States, fifth with 4.5 percent.

PRICES. The 1998 annual exvessel price index for edible fish and shellfish declined 5 percent while industrial fish remained unchanged when compared with 1997. Exvessel price indices decreased for 20 of the 33 species groups being tracked, increased for 10 species groups and were not calculated for calico scallops. The snow crab price index had the largest increase (29 percent) while the 'other shrimp' price index showed the largest decrease (147 percent).

PROCESSED PRODUCTS. The estimated value of the 1998 domestic production of edible and nonedible fishery products was $7.4 billion, $748.3 million less than the $8.1 billion in 1997. The value of edible products was $6.8 billion--a decrease of $748.4 million compared with 1997. The value of industrial products was $579.1 million in 1998--an increase of $39,000 compared with 1997.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was $15.6 billion in 1998--an increase of $1.1 billion compared with 1997. Imports of edible fishery products (product weight) were 3.6 billion pounds (1.7 million metric tons) valued at $8.2 billion in 1998--an increase of 308.2 million pounds and $418 .9 million compared with 1997. Imports of nonedible (i.e., industrial) products were $7.4 billion--an increase of $685.4 million compared with 1997.

Total export value of edible and nonedible fishery products was $8.7 billion in 1998--a decrease of $648.2 million compared with 1997. United States firms exported 1.7 billion pounds (766,100 metric tons) of edible products valued at $2.3 billion--a decrease of 329.9 million pounds, and $445.1 million compared with 1997. Exports of nonedible products were valued at $6.4 billion, $203.1 million less than 1997.

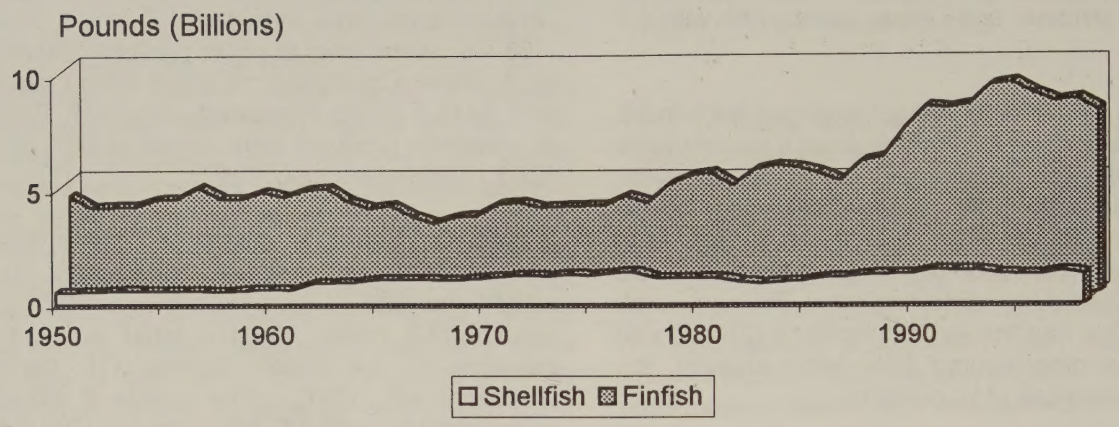
SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent, minus exports) was 10.5 billion pounds (4.7 million metric tons) in 1998--an increase of 1.4 billion pounds (15 percent) compared with 1997. The supply of industrial fishery products was 1.5 billion pounds (700 million metric tons) in 1998--a decrease of 939.0 million pounds (38 percent) compared with 1997.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 14.9 pounds of edible meat per person in 1998, up 0.3 pound from the 1997 per capita consumption of 14.6 pounds.

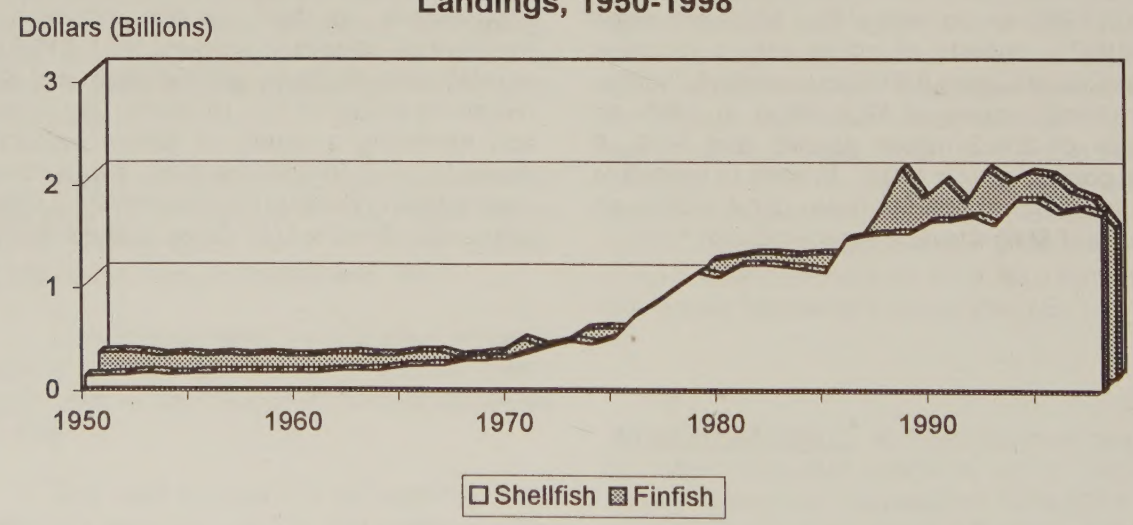
CONSUMER EXPENDITURES. U.S. consumers spent an estimated $49.3 billion for fishery products in 1998. The 1998 total includes $32.4 billion in expenditures at food service establishments (restaurants, carry-outs, caterers, etc.); $16.6 billion in retail sales for home consumption; and $250.9 million for industrial fish products. By producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $25.4 billion (in value added) to the U.S. Gross National Product.

REVIEW

Volume Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



Value Of U.S. Domestic Finfish & Shellfish Landings, 1950-1998



REVIEW

OTHER IMPORTANT FACTS

Alaska led all states in volume with landings of 4.9 billion pounds, followed by Louisiana, 1.1 billion; Virginia, 591.9 million; Washington, 419.0 million; and California, 336.1 million pounds.

Alaska led all states in value of landings with $951.5 million, followed by Louisiana, $291.9 million; Maine, $216.4 million; Massachusetts, $204.4 million; and Florida, $188.6 million.

Dutch Harbor-Unalaska, Alaska, was the leading U.S. port in quantity of commercial fishery landings, followed by: Reedville, Virginia; Kodiak, Alaska; Empire-Venice, Louisiana; Seattle, Washington, and Cameron, Louisiana.

Dutch Harbor-Unalaska was also the leading U.S. port in terms of value, followed by: New Bedford, Massachusetts; Kodiak, Alaska; Brownsville-Port Isabel, Texas; and Honolulu, Hawaii.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 394.5 million pounds. Halibut, snapper, Atlantic mackerel, and sea herring also were landed at ports outside the United States or transferred to foreign vessels (joint ventures) in U.S. waters.

Major U.S. Domestic Species Landed in 1998 - Ranked By Quantity and Value

(Numbers in thousands)

Rank	Species	Pounds	Rank	Species	Dollars
1	Pollock (walleye)	2,716,458	1	Shrimp	515,616
2	Menhaden	1,705,677	2	Crabs	473,378
3	Salmon	644,434	3	Lobsters	278,016
4	Cod	580,507	4	Salmon	257,456
5	Crabs	552,716	5	Pollock (walleye)	190,152
6	Hakes	542,761	6	Clams	135,237
7	Flounders	391,178	7	Cod	113,191
8	Shrimp	277,757	8	Menhaden	103,836
9	Herring (sea)	272,017	9	Flounders	96,802
10	Clams	107,959	10	Tuna	94,462

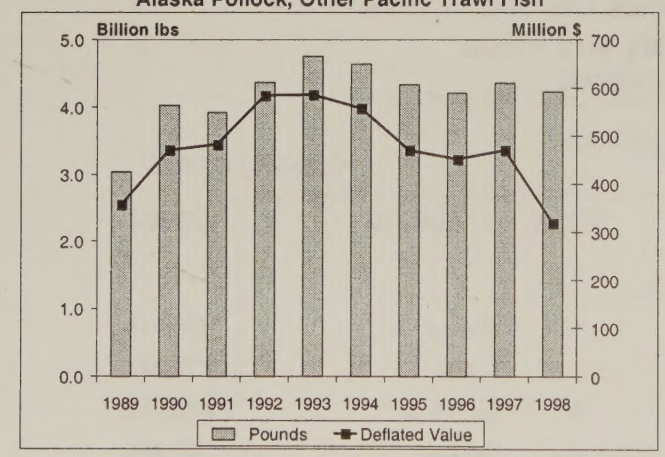
REVIEW

IMPORTANT SPECIES

ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, hake, Pacific ocean perch, Alaska pollock, and rockfishes) were 4.2 billion pounds valued at $358.9 million--a decrease of 3 percent in quantity and a 32 percent decrease in value compared with 1997.

Landings of Alaska pollock increased 8 percent to 2.7 billion pounds but were 5 percent lower than the 1993 - 1997 5 - year average. Landings of Pacific cod were 556.0 million pounds -- a decrease of 16 percent from 661.3 million pounds in 1997. Pacific hake (whiting) landings were 501.6 million pounds (up less than 1 percent) valued at $19.9 million (down 27 percent) compared to 1997. Landings of rockfishes were 70.1 million pounds (down 40 percent) and valued at $33.0 million (down 31 percent) compared to 1997. The 1998 rockfish landings were 32 percent lower than the 5-year average.

Trend in Commercial Landings, 1989 - 1998
Alaska Pollock, Other Pacific Trawl Fish



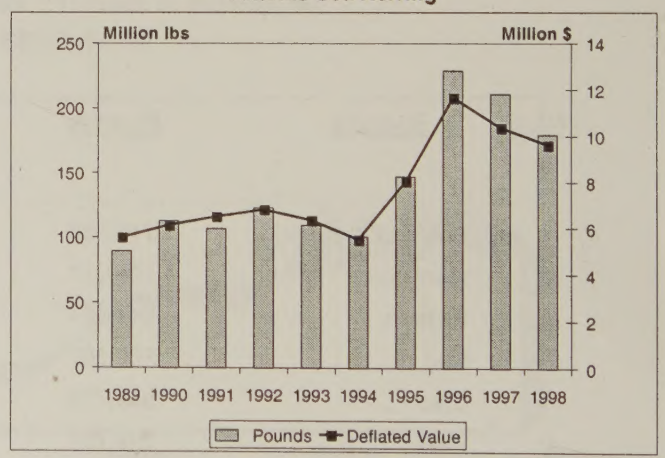
ANCHOVIES. U.S. landings of anchovies were 3.4 million pounds--a decrease of 9.3 million pounds (73 percent) compared with 1997. Twenty-seven percent of all landings were used for animal food or reduction and 73 percent were used for bait.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 73.3 million pounds (round weight) valued at $104.0 million--an increase of 3.4 million pounds (5 percent), but a decrease of $13.4 million (11 percent) compared with 1997. The Pacific fishery accounted for all but 18,000 pounds of the 1998 total halibut catch. The average exvessel price per pound in 1998 was $1.42 compared with $1.68 in 1997.

HERRING, SEA. U.S. commercial landings of sea herring were 272.0 million pounds valued at $21.6 million--a decrease of 75.9 million pounds (22 percent) and $19.3 million (47 percent) compared with 1997. Landings of Atlantic sea herring were 179.7 million pounds valued at $10.9 million--a decrease of 31.3 million pounds (15 percent) and $687,000 (6 percent) compared with 1997.

Landings of Pacific sea herring were 92.3 million pounds valued at $10.7 million--a decrease of 44.6 million pounds (33 percent) and $18.6 million (63 percent) compared with 1997. Alaska landings accounted for 94 percent of the Pacific coast with 86.8 million pounds valued at $9.8 million--a decrease of 28.7 million pounds (25 percent) and $6.1 million (38 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
Atlantic Sea Herring



JACK MACKEREL. California accounted for 54 percent and Oregon for 44 percent of the U.S. landings of jack mackerel in 1998. Total landings were 3.4 million pounds valued at $308,000--an increase of 888,000 pounds (35 percent), and $27,000 (10 percent) compared with 1997. The 1998 average exvessel price per pound decreased to 9 cents.

REVIEW

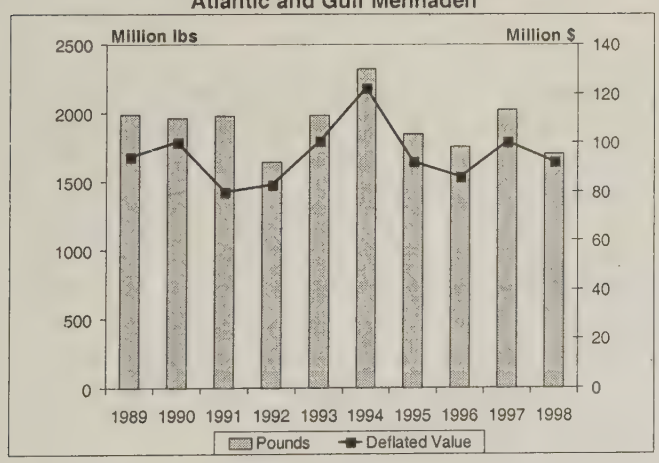
IMPORTANT SPECIES

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 27.6 million pounds valued at $4.7 million--a decrease of 64 million pounds (19 percent) and of $4.8 million (51 percent) compared with 1997. New Jersey with 18.4 million pounds and Rhode Island with 5.8 million pounds accounted for 88 percent of the total landings. The average exvessel price per pound in 1998 was 17 cents, down from 28 cents in 1997.

MACKEREL, CHUB. Landings of Chub mackerel were 45.0 million pounds valued at $2.5 million--an increase of 4.5 million pounds (11 percent), but a decrease of $215,000 (8 percent) compared with 1997. The average exvessel price per pound was 6 cents, down from 7 cents in 1997.

MENHADEN. The U.S. menhaden landings were 1.7 billion pounds valued at $103.8 million--a decrease of 322.1 million pounds (16 percent) and $8.2 million (7 percent) compared with 1997. Landings decreased by 47.7 million pounds (7 percent) in the Atlantic states and decreased 274.4 million pounds (20 percent) in the Gulf states compared with 1997. Landings along the Atlantic coast were 609.0 million pounds valued at $47.0 million. Gulf region landings were 1.1 billion pounds valued at $56.9 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and animal food.

Trend in Commercial Landings 1989-1998
Atlantic and Gulf Menhaden



NORTH ATLANTIC TRAWL FISH. Landings of butterfish, Atlantic cod, cusk, flounders (winter/ blackback, summer/fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) in the North Atlantic (combination of New England, Middle Atlantic, and Chesapeake Regions) were 160.9 million pounds valued at $120.5 million--an increase of 44.9 million pounds (39 percent) and an increase of $12.3 million (11 percent) compared with 1997. Of these species, flounder led in total value in the North Atlantic, accounting for 48 percent of the total; followed by cod, 21 percent; and whiting, 11 percent.

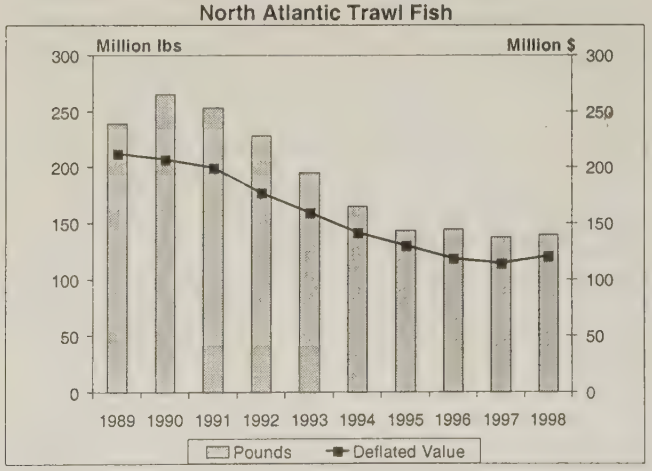
The 1998 landings of Atlantic cod were 24.5 million pounds valued at $25.5 million--a decrease of 4.1 million pounds (14 percent), but an increase of $1.0 million (4 percent) compared with 1997. The exvessel price per pound was $1.04 cents in 1998, up from 85 cents per pound in 1997.

Landings of yellowtail flounder were 8.1 million pounds--an increase of 1.7 million pounds (28 percent) from 1997, and about 32 percent higher than its 5-year average.

Haddock landings increased to 6.3 million pounds (89 percent) and $4.3 million (119 percent) compared to 1997.

North Atlantic pollock landings were 12.3 million pounds valued at $8.1 million--an increase of 2.9 million pounds (31 percent) and $2.8 million (51 percent) compared with 1997.

Trend in Commercial Landings 1989-1998
North Atlantic Trawl Fish



REVIEW

IMPORTANT SPECIES

PACIFIC SALMON. U.S. commercial landings of salmon were 644.4 million pounds valued at $257.5 million--an increase of 76.8 million pounds (14 percent), but a decrease of $12.9 million (5 percent) compared with 1997. Alaska and Washington accounted for 97 percent and 2 percent of the total landings, respectively. Sockeye salmon landings were 128.7 million pounds valued at $150.8 million--a decrease of 63.7 million pounds (33 percent), and $26.5 million (15 percent) compared with 1997. Chinook salmon landings decreased to 16.2 million pounds--down 5.5 million pounds (25 percent) from 1997. Pink salmon landings were 332.6 million pounds--an increase of 105.6 million (47 percent); chum salmon landings were 130.9 million--an increase of 27.8 million (27 percent); and coho salmon increased to 35.9 million--an increase of 12.7 million pounds (54 percent) compared with 1997.

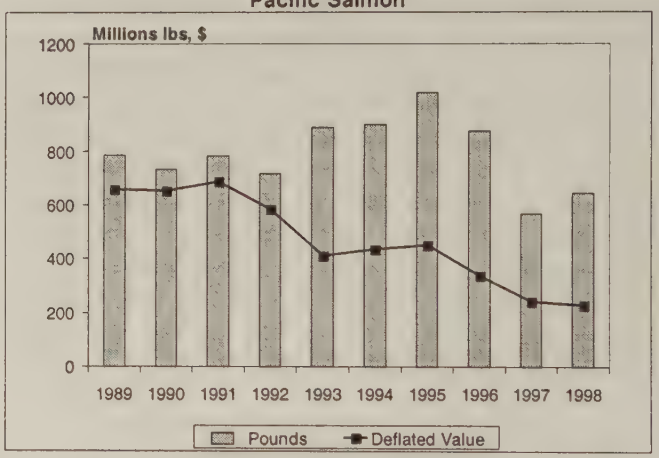
Alaska landings were 626.1 million pounds valued at $242.7 million--an increase of 88.2 million pounds (16 percent), but a decrease of $5.1 million (2 percent) compared with 1997. The distribution of Alaska salmon landings by species in 1998 was: sockeye, 125.5 million pounds (20 percent); pink, 332.6 million pounds (53 percent); chum, 123.8 million pounds (20 percent); coho, 34.4 million pounds (5 percent); and chinook, 9.8 million pounds (2 percent). The exvessel price per pound for all species in Alaska was 39 cents in 1998-- a decrease of 8 cents from 1997.

Washington salmon landings were 13.9 million pounds valued at $9.1 million--a decrease of 6.8 million pounds (33 percent), and $3.2 million (26 percent) compared with 1997. The biennial fishery for pink salmon went from 7.1 million pounds in 1997 to 3,000 pounds in 1998. Washington landings of sockeye salmon were 3.2 million pounds (down 53 percent); followed by chum salmon, 7.2 million pounds--an increase of 3.0 million pounds (up 70 percent); silver, 1.5 million pounds (up 85 percent); and chinook, 2.0 million pounds (up 16 percent) compared with 1997. The average exvessel price per pound for all species in Washington increased from 59 cents in 1997 to 66 cents in 1998.

Oregon salmon landings were 1.8 million pounds valued at $2.5 million--a decrease of 457,000 pounds (20 percent) and $303,000 (11 percent) compared with 1997. Only chinook salmon were landed in 1998; chum, pink, and silver salmon landings were not reported. The average exvessel price per pound for chinook salmon in Oregon increased from $1.24 in 1997 to $1.39 in 1998.

California salmon landings were 2.1 million pounds valued at $3.0 million -- a decrease of 4.0 million pounds (65 percent) and $4.3 million (59 percent) compared with 1997. Landings of chinook salmon were 2.1 million pounds; coho landings were 1,000 pounds. The average exvessel price per pound paid to fishermen in 1998 was $1.44 compared with $1.20 in 1997.

Trend in Commercial Landings 1989-1998
Pacific Salmon



SABLEFISH. U.S. commercial landings of sablefish were 43.5 million pounds valued at $91.8 million--a decrease of 9.4 million pounds (18 percent) and a decrease of $17.0 million (16 percent) compared with 1997. Landings decreased in Alaska to 33.5 million pounds, a decrease of 5 percent compared with 1997. Landings decreased in Washington to 2.9 million pounds (42 percent) and $3.9 million (down 60 percent). The 1998 Oregon catch was 3.9 million pounds (down 40 percent) and $4.6 million (down 56 percent) compared with 1997. California landings of 3.2 million pounds and $3.3 million represent a 50 percent decrease in quantity and a 63 percent decrease in value from 1997. The average exvessel price per pound in 1998 was $2.11 compared with $2.06 in 1997.

REVIEW

IMPORTANT SPECIES

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 479.4 million pounds valued at $257.2 million--an increase of 22.8 million pounds (5 percent), but a decrease of $37.1 million (13 percent) compared with 1997. The average exvessel price per pound of all species of tuna in 1998 was 54 cents compared with 64 cents in 1997.

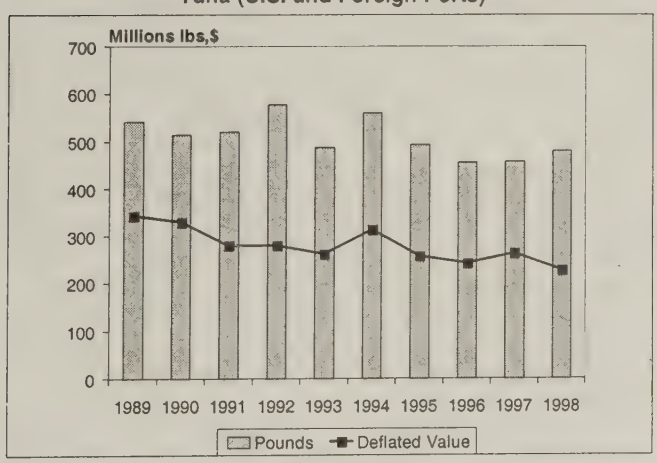
Bigeye landings in 1998 were 17.6 million pounds--an increase of 2.9 million pounds (20 percent) compared with 1997. The average exvessel price per pound was $1.64 in 1998 compared with $1.69 in 1997.

Skipjack landings were 272.6 million pounds--an increase of 25.4 million pounds (10 percent) compared with 1997. The average exvessel price per pound was 38 cents in 1998, compared to 45 cents in 1997.

Yellowfin landings were 136.5 million pounds--a decrease of 5.1 million pounds (4 percent) compared with 1997. The average exvessel price per pound was 57 cents in 1998 compared with 72 cents in 1997.

Bluefin landings were 6.7 million pounds--a decrease of 605,000 pounds (8 percent) compared with 1998. The average exvessel price per pound in 1998 was $2.32 compared with $2.78 in 1997.

Trend in Commercial Landings 1989-1998
Tuna (U.S. and Foreign Ports)

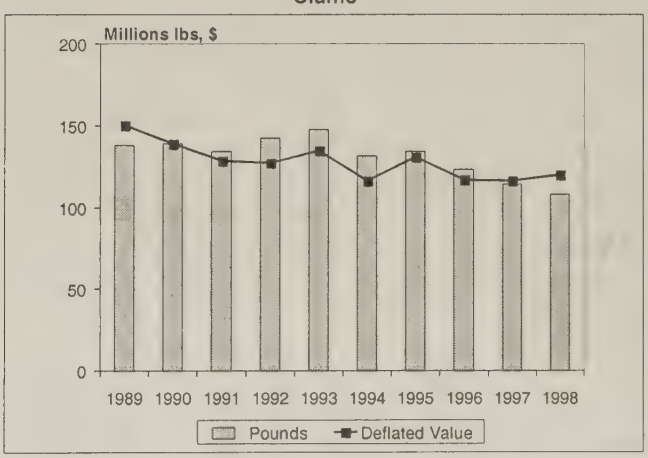


CLAMS. Landings of all species yielded 108.0 million pounds of meats valued at $135.2 million--a decrease of 6.2 million pounds (5 percent), but an increase of $5.6 million (4 percent) in value compared with 1997. The average exvessel price per pound in 1998 was $1.25 compared with $1.14 in 1997.

Surf clams yielded 54.0 million pounds of meats valued at $29.2 million--a decrease of 3.9 million pounds (7 percent) and $6.0 million (17 percent) compared with 1997. New Jersey was the leading state with 44.8 million pounds (down 2 percent), followed by New York, 3.9 million pounds (down 44 percent) and Maryland, 3.8 million pounds (down 4 percent) compared with 1997. The average exvessel price per pound of meats was 54 cents in 1998, down 7 cents from 1997.

The ocean quahog fishery produced 39.9 million pounds of meats valued at $18.4 million--a decrease of 4.0 million pounds (9 percent) and $1.6 million (8 percent) compared with 1997. New Jersey had landings of 15.7 million pounds (down 14 percent) valued at $6.7 million (down 12 percent) while Massachusetts production was 19.2 million pounds (down 6 percent) valued at $8.0 million (down 6 percent). Together, they accounted for 88 percent of the total ocean quahog production in 1998. The average exvessel price per pound of meats increased from 45 cents in 1997 to 46 cents in 1998.

Trend in Commercial Landings 1989-1998
Clams



The hard clam fishery produced 7.2 million pounds of meats valued at $41.8 million--a decrease of 514,000 pounds (7 percent) and $90,000 (less than 1 percent) compared with 1997. Landings in the New

England region were 2.5 million pounds of meats (up 67 percent); Middle Atlantic, 3.2 million pounds (down 30 percent); Chesapeake, 543,000 pounds (down 21 percent); and the South Atlantic region, 1.0 million pounds (up 4 percent). The average exvessel price per pound of meats increased from $5.43 in 1997 to $5.81 in 1998.

Soft clams yielded 2.8 million pounds of meats valued at $12.2 million--an increase of 516,000 pounds (22 percent) and $2.3 million (23 percent) compared with 1997. Maine was the leading state with 2.4 million pounds of meats (up 34 percent), followed by Maryland, 219,000 pounds (down 4 percent) and New York with 208,000 pounds (down 23 percent). The average exvessel price per pound of meats was $4.35 in 1998, compared with $4.32 in 1997.

CRABS. Landings of all species of crabs were 552.7 million pounds valued at $473.4 million--an increase of 122.8 million pounds (29 percent) and $43.8 million (10 percent) compared with 1997.

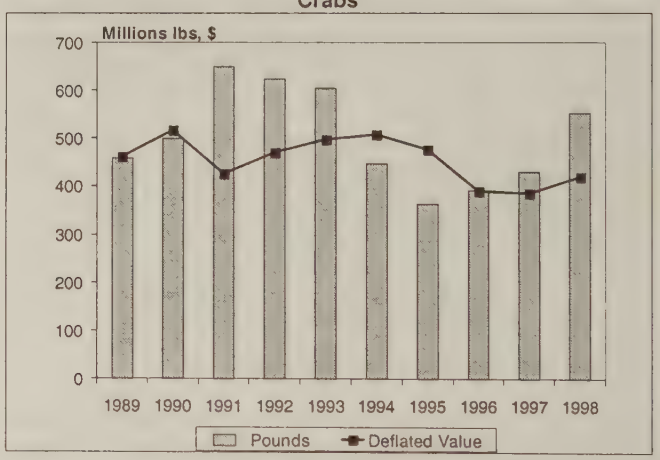
Hard blue crab landings were 217.9 million pounds valued at $149.1 million--a decrease of 12.9 million pounds (6 percent) and $9.0 million (6 percent) compared with 1997. North Carolina landed 29 percent of the total; Louisiana, 20 percent; Virginia, 15 percent; and Maryland landed 14 percent of the total U.S. landings. Hard blue crab landings in the Chesapeake region were 61.7 million pounds--a decrease of 26 percent; the South Atlantic, with 79.6 million pounds increased 6 percent; and the Gulf region with 65.6 million pounds increased 7 percent. The Middle Atlantic region with 11.0 million pounds valued at $9.1 million had an increase of 392,000 pounds (4 percent) compared with 1997. The average exvessel price per pound of hard blue crabs was 68 cents in 1998, one cent less than in 1997.

Dungeness crab landings were 34.2 million pounds valued at $61.8 million--a decrease of 4.0 million pounds (10 percent) and $13.8 million (18 percent) compared with 1997. Washington landings of 13.2 million pounds (down 16 percent) led all states with 39 percent of the total landings. California landings were 10.6 million pounds (up 7 percent) or 31 percent of the total landings. Oregon landings were 7.4 million pounds (down 4 percent) and Alaska landings were 3.0 million pounds (down 39 percent) compared with 1997. The average exvessel price per pound was $1.81 in 1998 compared with $1.98 in 1997.

U.S. landings of king crab were 24.1 million pounds valued at $57.4 million--an increase of 6.1 million pounds (34 percent) and $6.8 million (13 percent) compared with 1997. The average exvessel price per pound in 1998 was $2.38 compared with $2.81 in 1997.

Snow (tanner) crab landings were 251.8 million pounds valued at $145.0 million--an increase of 132.9 million pounds (112 percent) and $49.3 million (51 percent) compared with 1997. The average exvessel price per pound was 58 cents in 1998, down from 80 cents in 1997.

Trend in Commercial Landings 1989-1998
Crabs



LOBSTER, AMERICAN. American lobster landings were 79.6 million pounds valued at $253.6 million--a decrease of 4.3 million pounds (5 percent) and $13.6 million (5 percent) compared with 1997. Maine led in landings for the seventeenth consecutive year with 46.9 million pounds valued at $136.6 million--an increase of 95,000 pounds (less than 1 percent) compared with 1997. Massachusetts, the second leading producer, had landings of 13.3 million pounds valued at $48.6 million--a decrease of 1.6 million pounds (11 percent) compared with 1997. Together, Maine and Massachu-

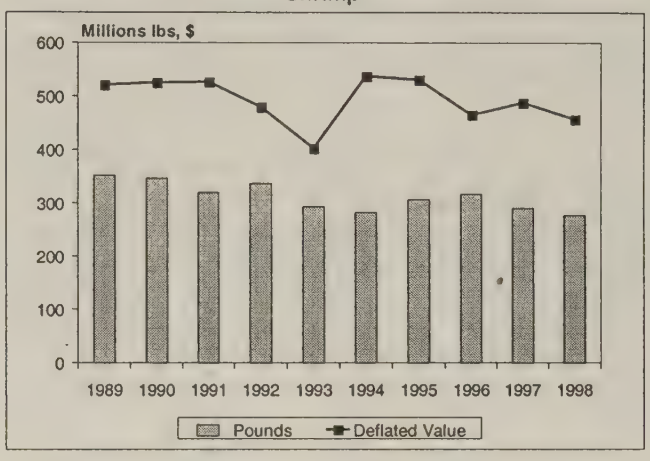
setts produced 75 percent of the total national landings. The average exvessel price per pound was $3.18 in 1998, the same price as in 1997.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 5.9 million pounds valued at $24.4 million--a decrease of 1.3 million pounds (18 percent) and $9.0 million (27 percent) compared with 1997. Florida, with landings of 5.2 million pounds valued at $19.5 million, accounted for 87 percent of the total catch and 80 percent of the value. This was a decrease of 973,000 pounds (16 percent), and $6.0 million (23 percent) compared with 1997. Overall the average exvessel price per pound was $4.11 in 1998 compared with $4.61 in 1997.

OYSTERS. U.S. oyster landings yielded 33.5 million pounds of meats valued at $88.6 million -- a decrease of 3.6 million pounds (10 percent) and $3.6 million (4 percent) compared with 1997. The Gulf region led in production with 19.9 million pounds of meats, 59 percent of the national total; followed by the Pacific (principally Washington, with 83 percent of the region's total volume) with 7.9 million pounds (24 percent); and the Chesapeake region with 2.7 million pounds (8 percent). The average exvessel price per pound of meats was $2.64 in 1998 compared with $2.46 in 1997.

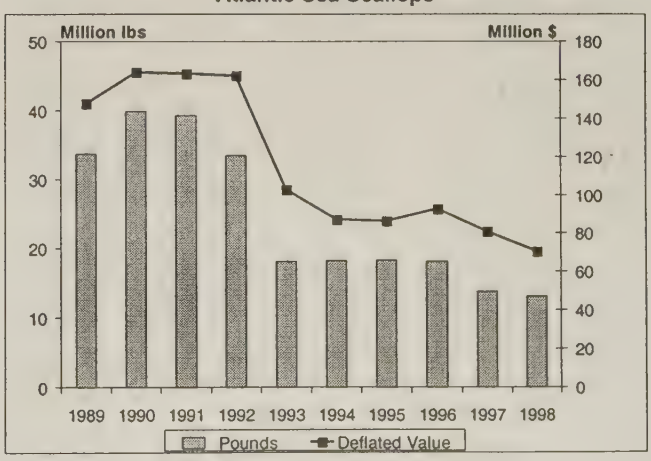
SHRIMP. U.S. landings of shrimp were 277.8 million pounds valued at $515.6 million--a decrease of 12.5 million pounds (4 percent) and $28.4 million (5percent) in value compared with 1997. Shrimp landings decreased in the South Atlantic (down 7 percent) and New England (down 42 percent), but increased 12 percent in the Gulf. The landings in the Pacific decreased 65 percent when compared with 1997. The average exvessel price per pound of shrimp decreased to $1.86 in 1998 compared with $1.87 in 1997. Gulf region landings were the nation's largest with 230.0 million pounds and 83 percent of the national total. Louisiana led all Gulf states with 96.2 million pounds (up 3 percent); followed by Texas, 72.4 million pounds (up 2 percent); Florida (West Coast), 25.2 million pounds (up 28 percent); Alabama, 20.1 million pounds (up 73 percent); and Mississippi, 16.1 million pounds (up 65 percent). In the Pacific region, Oregon had landings of 6.2 million pounds (down 68 percent); California had 3.2 million pounds (down 79 percent); and Washington had landings of 3.1 million pounds (down 50 percent) compared with 1997.

Trend in Commercial Landings, 1989-1998
Shrimp



SCALLOPS. U.S. landings of bay and sea scallops totaled 13.2 million pounds of meats valued at $80.0 million -- a decrease of 695,000 pounds (5 percent) and $10.6 million (12 percent) compared with 1997. The average exvessel price per pound of meats decreased from $6.54 in 1997 to $6.07 in 1998.

Trend in Commercial Landings, 1989-1998
Atlantic Sea Scallops



IMPORTANT SPECIES

Bay scallop landings were 105,000 pounds of meats valued at $368,000--an increase of 33,000 pounds (46 percent) and $58,000 (19 percent) compared with 1997. The average exvessel price per pound of meats was $3.50 in 1998 compared with $4.31 in 1997.

Commercial landings of calico scallops in Florida cannot be reported due to federal data confidentially restrictions.

Sea scallop landings were 13.1 million pounds of meats valued at $79.6 million--a decrease of 728,000 pounds (5 percent) and $10.7 million (12 percent) compared with 1997. Massachusetts and Virginia were the leading states in landings of sea scallops with 5.8 and 3.5 million pounds of meats, respectively; representing 71 percent of the national total. The average exvessel price per pound of meats in 1998 was $6.09 compared with $6.55 in 1997.

SQUID. U.S. commercial landings of squid were 99.5 million pounds valued at $43.5 million--a decrease of 124.3 million pounds (56 percent) and $12.0 million (22 percent) compared with 1997. New Jersey was the leading state with 40.6 million pounds (41 percent) of the national total and was followed by Rhode Island with 38.6 million pounds (39 percent) of the national total. The Middle Atlantic region landings were 48.9 million pounds (up 47 percent); followed by New England, 40.4 million (up 27 percent); Pacific, 7.4 pounds (down 95 percent); and the South Atlantic region with 927,000 pounds (up 10 percent) compared with 1997. The average exvessel price per pound for squid was 44 cents in 1998 compared with 25 cents in 1997.

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1)

Species	1997			1998			Average (1993-97)
Fish	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Alewives	1,160	526	193	1,309	594	292	1,168
Anchovies	12,738	5,778	827	3,429	1,555	242	9,516
Atka mackerel	131,258	59,538	6,999	113,712	51,579	5,686	153,318
Bluefish	9,307	4,222	2,849	8,299	3,764	2,765	9,488
Blue runner	352	160	198	609	276	340	963
Bonito	993	450	405	2,596	1,178	917	1,496
Butterfish	7,544	3,422	5,112	5,684	2,578	2,848	8,869
Catfish and bullheads	15,150	6,872	9,615	11,590	5,257	5,251	11,893
Chubs	3,070	1,393	1,551	4,596	2,085	1,883	3,947
Cod:							
Atlantic	28,619	12,981	24,464	24,514	11,119	25,474	35,766
Pacific	661,314	299,970	142,429	555,993	252,197	87,717	560,223
Crevalle (jack)	593	269	378	875	397	487	243
Croaker:							
Atlantic	27,413	12,434	8,834	25,401	11,522	9,619	16,511
Pacific (white)	368	167	224	141	64	100	515
Cusk	977	443	563	780	354	512	1,849
Dolphinfish	1,970	894	2,640	922	418	1,375	1,775
Eels, American	1,069	485	6,592	1,015	460	3,971	1,084
Flounders:							
Arrowtooth	13,934	6,320	831	18,181	8,247	906	17,636
Winter (blackback)	12,710	5,765	16,167	11,244	5,100	15,110	10,721
Plaice, American	8,680	3,937	11,405	8,073	3,662	10,298	10,501
Summer (fluke)	8,784	3,984	16,331	11,211	5,085	20,384	16,070
Sole:							
Dover	27,210	12,342	7,255	22,029	9,992	6,576	--
Flathead	28,367	12,867	2,773	41,637	18,886	801	19,414
Witch (gray)	3,913	1,775	6,570	4,089	1,855	6,539	5,012
Petrale	4,270	1,937	3,852	3,228	1,464	3,044	--
Rock	72,205	32,752	10,354	33,508	15,199	710	78,098
Yellowfin	329,150	149,301	25,694	177,471	80,500	3,553	247,307
Yellowtail	6,313	2,864	9,477	8,060	3,656	10,940	6,106
Atlantic/Gulf, Other	4,969	2,254	9,196	5,864	2,660	9,532	15,035
Pacific, Other	45,848	20,797	10,864	46,583	21,130	8,409	74,563
Total, flounders	**566,353**	**256,896**	**130,769**	**391,178**	**177,437**	**96,804**	**495,057**
Goosefish (anglerfish)	60,640	27,506	34,591	58,105	26,356	33,553	50,597
Groupers	10,276	4,661	23,665	9,841	4,464	20,853	11,431
Haddock	3,316	1,504	3,595	6,252	2,836	7,880	1,622
Hake:							
Pacific (whiting)	499,598	226,616	27,344	501,554	227,503	19,931	437,564
Red	2,929	1,329	790	2,961	1,343	769	3,248
Silver (Atl.whiting)	34,248	15,535	15,024	32,990	14,964	13,369	34,910
White	4,897	2,221	3,229	5,256	2,384	3,788	9,737
Halibut	69,864	31,690	117,362	73,260	33,231	103,974	56,941
Herring:							
Sea:							
Atlantic	211,010	95,714	11,543	179,721	81,521	10,856	153,191
Pacific	136,861	62,080	29,341	92,296	41,865	10,722	118,837
Thread	16,641	7,548	1,007	5,678	2,576	658	11,062
Jack mackerel	2,557	1,160	281	3,445	1,563	308	4,360
Lingcod	4,164	1,889	2,021	1,454	660	927	4,547
Mackerel:							
Atlantic	33,940	15,395	9,527	27,588	12,514	4,704	23,521
Chub	40,558	18,397	2,762	45,025	20,423	2,547	25,545
King and cero	5,544	2,515	7,606	5,204	2,361	6,797	4,896
Spanish	3,738	1,696	1,933	3,216	1,459	1,807	4,644

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Menhaden:							
Atlantic	656,666	297,862	40,009	608,974	276,229	46,979	706,605
Gulf	1,371,136	621,943	72,041	1,096,703	497,461	56,857	1,280,812
Total, menhaden	**2,027,802**	**919,805**	**112,050**	**1,705,677**	**773,690**	**103,836**	**1,987,418**
Mullets	19,637	8,907	13,419	17,921	8,129	9,420	24,205
Ocean perch:							
Atlantic	553	251	346	706	320	419	993
Pacific	43,166	19,580	3,186	40,663	18,445	4,072	40,056
Pollock:							
Atlantic	9,372	4,251	5,349	12,307	5,582	8,101	8,758
Walleye (Alaska)	2,512,455	1,139,642	242,589	2,716,458	1,232,177	190,152	2,874,145
Rockfishes:							
Bocaccio	1,596	724	610	1,314	596	518	--
Canary	2,782	1,262	1,369	2,894	1,313	1,469	--
Chilipepper	4,079	1,850	1,626	2,807	1,273	1,187	--
Widow	17,088	7,751	5,235	10,796	4,897	3,850	--
Yellowtail	6,051	2,745	2,227	7,940	3,602	3,006	--
Other	85,392	38,734	36,832	44,307	20,098	23,011	--
Total, rockfishes	**116,988**	**53,065**	**47,899**	**70,058**	**31,778**	**33,041**	**102,847**
Sablefish	52,925	24,007	108,776	43,500	19,731	91,823	65,517
Salmon, Pacific:							
Chinook or king	21,772	9,876	27,680	16,229	7,361	18,998	20,908
Chum or keta	103,163	46,794	22,775	130,939	59,394	22,662	155,386
Pink	226,995	102,964	26,470	332,577	150,856	45,580	337,962
Red or sockeye	192,460	87,299	177,284	128,742	58,397	150,835	312,067
Silver or coho	23,268	10,554	16,161	35,947	16,305	19,381	47,946
Total, salmon	**567,658**	**257,488**	**270,370**	**644,434**	**292,313**	**257,456**	**874,269**
Sardines:							
Pacific	94,393	42,816	4,071	93,875	42,581	3,613	57,707
Spanish	1,128	512	279	1,079	489	251	1,446
Scup or porgy	5,718	2,594	7,449	4,913	2,229	6,882	8,086
Sea bass:							
Black (Atlantic)	3,506	1,590	4,927	3,377	1,532	5,342	3,715
White (Pacific)	62	28	127	157	71	295	82
Sea trout or weakfish:							
Gray	7,314	3,318	4,136	8,423	3,821	4,060	6,892
Spotted	943	428	1,091	585	265	841	1,710
Sand (white)	161	73	91	123	56	80	251
Shad:							
American	3,058	1,387	1,272	4,375	1,984	1,715	3,119
Hickory	165	75	43	104	47	14	119
Sharks:							
Dogfish	46,345	21,022	7,307	49,111	22,277	8,139	52,335
Other	14,934	6,774	8,536	15,453	7,009	6,644	15,273
Sheepshead (Atlantic)	3,843	1,743	1,336	3,010	1,365	1,080	4,139
Skates	27,845	12,630	4,209	33,669	15,272	4,578	22,983
Smelts	3,076	1,395	1,075	1,817	824	643	3,017
Snapper:							
Red	5,161	2,341	10,365	4,257	1,931	9,899	4,104
Vermilion	1,630	739	3,245	1,059	480	2,280	1,630
Unclassified	3,840	1,742	7,884	3,614	1,639	7,021	6,247

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
Fish - Continued:	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Spearfish	220	100	130	296	134	174	226
Spot	6,775	3,073	2,738	7,404	3,358	2,934	7,272
Striped bass	6,176	2,801	8,970	6,715	3,046	9,699	3,569
Swordfish	13,586	6,163	33,786	15,093	6,846	28,888	15,344
Tenpounder (ladyfish)	1,602	727	505	2,151	976	1,178	--
Tilefish	4,230	1,919	5,829	3,801	1,724	6,011	3,893
Trout, rainbow	303	137	242	789	358	497	401
Tuna:							
Albacore	28,824	13,074	24,684	33,429	15,163	22,224	24,069
Bigeye	6,985	3,168	21,231	8,779	3,982	24,816	6,540
Bluefin	7,265	3,295	20,207	6,660	3,021	15,448	6,151
Little (tunny)	994	451	359	661	300	161	532
Skipjack	15,874	7,200	8,688	13,918	6,313	6,616	13,194
Yellowfin	22,524	10,217	34,224	20,832	9,449	24,791	20,764
Unclassified	389	176	401	720	327	406	618
Total, tuna	**82,855**	**37,583**	**109,794**	**84,999**	**38,555**	**94,462**	**71,869**
Whitefish, lake	12,880	5,842	9,702	12,519	5,679	9,418	11,771
Wolffish, Atlantic	682	309	265	652	296	321	935
Yellow perch	1,371	622	2,851	1,227	557	2,637	2,371
Other marine finfishes	66,854	30,325	34,768	52,313	23,729	35,388	101,750
Other freshwater finfishes	15,045	6,824	4,875	12,847	5,827	3,914	16,409
Total, fish	**8,397,286**	**3,808,984**	**1,722,145**	**7,888,020**	**3,577,982**	**1,446,942**	**--**
Shellfish							
Abalone	45	20	1,056	-	-	-	75
Clams:							
Quahog (hard)	7,708	3,496	41,865	7,194	3,263	41,775	12,800
Geoduck (Pacific)	1,081	490	14,161	1,445	655	16,025	--
Manila	201	91	1,248	1,174	533	8,650	--
Ocean quahog	43,940	19,931	19,929	39,898	18,098	18,358	47,512
Softshell	2,299	1,043	9,929	2,815	1,277	12,235	2,834
Surf (Atlantic)	57,977	26,298	35,185	54,032	24,509	29,202	65,184
Other	978	444	7,369	1,401	635	8,992	1,577
Total, clams	**114,184**	**51,794**	**129,686**	**107,959**	**48,970**	**135,237**	**131,965**
Conch (snails)	2,258	1,024	2,854	1,872	849	2,448	4,393
Crabs:							
Blue: Hard	230,830	104,704	158,188	217,916	98,846	149,141	221,930
Soft and peeler	4,021	1,824	12,534	6,693	3,036	34,316	3,086
Dungeness	38,202	17,328	75,682	34,213	15,519	61,894	50,496
Jonah	1,643	745	806	2,768	1,256	1,359	1,601
King	18,028	8,177	50,576	24,122	10,942	57,366	18,079
Snow (tanner):							
Opilio	117,090	53,112	92,380	249,146	113,012	139,771	126,538
Bairdi	1,808	820	3,317	2,685	1,218	5,207	10,010
Other	18,341	8,319	36,064	15,173	6,882	24,324	15,587
Total, crabs	**429,963**	**195,030**	**429,547**	**552,716**	**250,710**	**473,378**	**447,356**

See notes at end of table.

Continued)

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1997 AND 1998 (1) - Continued

Species	1997			1998			Average (1993-97)
Shellfish - Continued	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds
Crawfish (freshwater)	23,140	10,496	12,997	22,226	10,082	14,637	24,909
Horseshoe crab	5,748	2,607	1,197	7,170	3,252	2,159	2,899
Lobsters:							
American	83,921	38,066	267,216	79,642	36,125	253,636	68,979
Spiny	7,240	3,284	33,381	5,935	2,692	24,380	7,370
Mussels, blue (sea)	4,532	2,056	2,288	2,913	1,321	1,604	5,995
Oysters	37,115	16,835	92,243	33,538	15,213	88,627	37,940
Scallops:							
Bay	72	33	310	105	48	368	192
Calico, Atlantic	1,613	732	3,601	(3)	(3)	(3)	3,881
Sea	13,789	6,255	90,291	13,061	5,924	79,606	17,322
Shrimp:							
New England	14,010	6,355	11,477	8,132	3,689	7,697	12,502
South Atlantic	25,638	11,629	68,655	23,972	10,874	61,341	32,071
Gulf	205,517	93,222	436,929	229,962	104,310	429,169	211,304
Pacific	45,054	20,436	26,817	15,545	7,051	16,773	41,906
Other	36	16	178	146	66	636	45
Total, shrimp	**290,255**	**131,659**	**544,056**	**277,757**	**125,990**	**515,616**	**297,828**
Squid:							
Atlantic:							
Illex	30,054	13,632	6,440	50,082	22,717	9,463	36,023
Loligo	35,630	16,162	26,476	41,620	18,879	32,141	40,688
Unclassified	493	224	427	1,543	700	277	106,315
Pacific:							
Loligo	156,348	70,919	22,056	5,973	2,709	1,520	--
Unclassified	1,258	571	82	235	107	71	--
Total, Squid	**223,783**	**101,507**	**55,481**	**99,453**	**45,112**	**43,472**	**184,297**
Other shellfish	7,312	3,317	11,378	14,268	6,472	13,686	--
Total, Shellfish	**1,244,970**	**564,715**	**1,677,582**	**1,218,615**	**552,760**	**1,648,854**	**--**
Other							
Sea urchins	44,568	20,216	39,330	30,042	13,627	27,319	56,727
Seaweed, unclassified	155,274	70,432	2,443	56,318	25,546	982	--
Kelp (w/herring eggs)	657	298	3,596	315	143	1,017	555
Worms	492	223	2,507	660	299	3,355	--
Total, other	**200,991**	**91,169**	**47,876**	**87,335**	**39,615**	**32,673**	**--**
Grand Total, U.S.	**9,843,247**	**4,464,868**	**3,447,603**	**9,193,970**	**4,170,357**	**3,128,469**	**---**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage are not available.
(3) Data are confidential and included with unclassified shellfish.

Note:--Metric tons are arrived at by dividing the landings of individual species and group totals by 2.2046. Totals may not add due to rounding. Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Data do not include aquaculture products except oysters and clams.

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1997 AND 1998

End Use	1997		1998	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food	6,554	66.6	6,574	71.5
For bait and animal food	319	3.2	296	3.2
Total	**6,873**	**69.8**	**6,870**	**74.7**
Canned:				
For human food	582	5.9	470	5.1
For bait and animal food	66	0.7	46	0.5
Total	**648**	**6.6**	**516**	**5.6**
Cured for human food	108	1.1	129	1.4
Reduction to meal, oil, other	2,213	22.5	1,679	18.3
Grand total	**9,842**	**100.0**	**9,194**	**100.0**

NOTE:--Data are preliminary. Table may not add due to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1998

Month	Landings for human food		Landings for industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	525	7.3	24	1.2	549	6.0
February	1,251	17.4	17	0.8	1,268	13.8
March	533	7.4	21	1.0	554	6.0
April	266	3.7	86	4.3	352	3.8
May	455	6.3	280	13.9	735	8.0
June	492	6.9	260	12.9	752	8.2
July	623	8.7	365	18.1	988	10.7
August	701	9.8	325	16.1	1,026	11.2
September	951	13.3	223	11.0	1,174	12.8
October	975	13.6	239	11.8	1,214	13.2
November	238	3.3	106	5.2	344	3.7
December	163	2.3	75	3.7	238	2.6
Total	**7,173**	**100.0**	**2,021**	**100.0**	**9,194**	**100.0**

(1) Processed into meal, oil, solubles, and shell products, or used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1989-1998 (1)

Year	Landings for human food		Landings for industrial purposes (2)		Total	
	Million pounds	Million dollars	Millions pounds	Million dollars	Millions pounds	Million dollars
1989	6,204	3,111	2,259	127	8,463	3,238
1990	7,041	3,366	2,363	156	9,404	3,522
1991	7,031	3,169	2,453	139	9,484	3,308
1992	7,618	3,531	2,019	147	9,637	3,678
1993	*8,214	3,317	2,253	154	10,467	3,471
1994	7,936	3,714	2,525	95	10,461	3,809
1995	7,667	3,625	2,121	145	9,788	3,770
1996	7,474	3,355	2,091	132	9,565	3,487
1997	7,244	3,285	2,598	163	9,842	3,448
1998	7,173	3,009	2,021	119	9,194	3,128

(1) Statistics on landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). All data are preliminary.

(2) Processed into meal, oil, solubles, and shell products, or used as bait or animal food.

* Record. Record--For industrial purposes 1983, 3,201 million lb.

NOTE:--Data do not include landings outside the 50 States or products of aquaculture, except oysters and clams.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY REGION AND BY STATE, 1997 AND 1998 (1)

Regions and States	1997		1998		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
New England:	**640,621**	**555,913**	**595,611**	**537,442**	-	-
Maine	244,059	223,244	183,905	216,431	1950	356,266
New Hampshire	10,919	12,577	10,143	11,178	-	(2)
Massachusetts	229,991	214,706	252,518	204,408	1948	649,696
Rhode Island	138,693	74,813	131,420	71,066	1957	142,080
Connecticut	16,959	30,573	17,625	34,359	1930	88,012
Middle Atlantic:	**236,881**	**199,912**	**261,686**	**181,177**	-	-
New York	59,943	96,689	57,532	84,323	1880	335,000
New Jersey	168,289	97,898	195,918	90,919	1956	540,060
Delaware	8,649	5,325	7,898	5,882	1953	367,500
Pennsylvania	NA	NA	338	53	-	
Chesapeake:	**688,142**	**169,319**	**653,365**	**179,869**	-	-
Maryland	76,627	64,321	61,468	67,190	1890	141,607
Virginia	611,515	104,998	591,897	112,679	1990	786,794
South Atlantic:	**298,685**	**213,386**	**239,912**	**197,010**	-	-
North Carolina	229,729	101,729	182,161	104,777	1981	432,006
South Carolina	17,023	31,456	17,304	28,292	1965	26,611
Georgia	14,511	27,400	13,017	23,737	1927	47,607
Florida, East Coast	37,422	52,801	27,430	40,204	-	(2)
Gulf:	**1,790,310**	**758,681**	**1,536,583**	**718,925**	-	-
Florida, West Coast	77,307	156,439	87,010	148,356	-	(2)
Alabama	23,076	38,311	30,081	46,985	1973	36,744
Mississippi	177,782	41,972	210,775	48,434	1985	439,518
Louisiana	1,426,495	318,822	1,119,500	291,893	1984	1,931,027
Texas	85,650	203,137	89,217	183,257	1960	237,684
Pacific Coast:	**6,125,787**	**1,464,962**	**5,843,268**	**1,235,709**	-	-
Alaska	4,765,002	1,066,555	4,858,052	951,479	1993	5,905,638
Washington	438,567	139,648	418,985	123,223	1994	527,804
Oregon	273,503	80,423	230,125	50,341	1992	256,912
California	648,715	178,336	336,106	110,666	1936	1,760,193
Great Lakes:	**26,256**	**16,797**	**27,116**	**16,274**	-	-
Illinois	154	241	98	98	-	(2)
Indiana	158	327	-	-	-	(2)
Michigan	15,874	9,623	14,831	8,862	1930	35,580
Minnesota	472	236	427	224	-	(2)
New York	70	74	1	2	-	
Ohio	3,970	2,199	4,733	2,618	1936	31,083
Pennsylvania	13	11	35	52	-	(2)
Wisconsin	5,545	4,086	6,991	4,418	-	(2)
Hawaii	**36,568**	**68,693**	**36,426**	**62,065**	1993	34,582
Total, United States	**9,843,250**	**3,447,663**	**9,193,967**	**3,128,471**	-	---

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks such as clams, oysters, scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River drainage area States are not available.

(2) Data not available.

NA:--Not applicable.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1997-1998

Port	Quantity	
	1997	1998
	Million pounds	
Dutch Harbor, AK	587.8	597.1
Reedville, VA	491.9	509.0
Kodiak, AK	277.5	357.6
Empire-Venice, LA	395.9	328.0
Seattle, WA	336.1	312.8
Cameron, LA	379.6	257.4
Intercoastal City, LA	270.8	206.7
Pascagoula-Moss Point, MS	164.7	193.2
Morgan City-Berwick, LA	222.9	158.6
Los Angeles, CA	168.2	145.3
Newport, OR	107.7	117.6
Gloucester, MA	81.5	107.1
Ketchikan, AK	65.2	99.9
Cape May-Wildwood, NJ	71.1	94.0
Astoria, OR	114.8	87.7
New Bedford, MA	83.3	87.4
Beaufort-Morehead City, NC	128.6	80.4
Point Judith, RI	74.9	75.1
Petersburg, AK	70.1	73.0
Portland, ME	74.8	46.5
Cordova, AK	59.4	45.4
Seward, AK	32.8	45.0
Rockland, ME	68.3	39.0
Atlantic City, NJ	39.0	37.3
Wanchese-Stumpy Point, NC	38.1	36.7
Westport, WA	31.3	34.5
Naknek-King Salmon, AK	41.5	34.1
Point Pleasant, NJ	32.4	32.9
Dulac-Chauvin, LA	32.5	30.5
Honolulu, HI	28.3	28.3
Moss Landings, CA	44.6	27.3
Brownsville-Port Isabel, TX	13.8	24.7
Bellingham, WA	24.8	24.0
Bayou La Batre, AL	12.1	23.6
Crescent City, CA	32.7	22.9
Hampton Roads Area, VA	23.6	21.9
Sitka, Ak	21.3	19.3
Homer, AK	24.6	19.0
Key West, FL	18.8	18.9
Kenai, AK	36.5	18.7
Ilwaco-Chinook, WA	13.1	18.1
Wrangell, AK	13.4	17.9
Provincetown-Chatham, MA	16.8	17.8
Englehard-Swanquarter, NC	14.7	17.7
Golden Meadow-Leeville, LA	15.1	17.6
Galveston, TX	12.5	16.3
Port Hueneme-Oxnard-Ventura, CA	111.9	16.0
Hampton Bay-Shinnicock, NY	12.9	14.7
Coos Bay-Charleston, OR	21.5	14.6
Palacios, TX	11.5	14.6
Port Arthur, TX	9.5	14.6

Port	Value	
	1997	1998
	Million dollars	
Dutch Harbor, AK	122.6	110.0
New Bedford, MA	103.2	93.5
Kodiak, AK	88.6	78.7
Brownsville-Port Isabel, TX	46.1	64.2
Honolulu, HI	54.0	49.0
Key West, FL	54.9	44.8
Reedville, VA	29.5	42.6
Point Judith, RI	47.6	41.8
Dulac-Chauvin, LA	42.1	38.7
Empire-Venice, LA	57.8	38.3
Bayou La Batre, AL	25.8	36.4
Portland, ME	43.2	35.2
Palacios, TX	30.4	32.6
Port Arthur, TX	23.9	32.6
Gulfport-Biloxi, MS	23.1	30.1
Cameron, LA	35.1	29.8
Naknek-King Salmon, AK	27.6	29.5
Cape May-Wildwood, NJ	29.7	29.2
Tampa Bay-St. Petersburg, FL	17.6	28.7
Gloucester, MA	23.5	28.4
Hampton Roads Area, VA	27.9	28.0
Galveston, TX	24.2	27.9
Golden Meadow-Leeville, LA	24.8	27.1
Seward, AK	27.8	26.3
Petersburg, AK	29.3	26.1
Los Angeles, CA	31.4	25.7
Wanchese-Stumpy Point, NC	24.0	24.7
Sitka, Ak	28.2	24.3
Ketchikan, AK	19.6	22.8
Delcambre, LA	21.6	22.5
Seattle, WA	22.1	22.3
Beaufort-Morehead City, NC	23.7	20.8
Cordova, AK	26.4	20.7
Fort Myers, FL	16.0	20.5
Homer, AK	19.9	18.9
Astoria, OR	22.4	18.0
Atlantic City, NJ	20.8	17.8
Morgan City-Berwick, LA	19.1	17.8
Grand Isle, LA	15.8	17.1
Bellingham, WA	17.2	16.7
Point Pleasant, NJ	16.8	16.7
Freeport, TX	15.2	16.1
Delacroix-Yscloskey, LA	15.8	15.6
Aransas Pass-Rockport, TX	17.4	15.5
Newport, OR	20.9	14.1
Pascagoula-Moss Point, MS	13.4	13.8
Charleston-Mt. Pleasant, SC	14.6	13.0
Westport, WA	19.6	12.8
Intercoastal City, LA	15.5	12.7
Englehard-Swanquarter, NC	10.7	12.5
Montauk, NY	13.5	12.2

Notes:--To avoid disclosure of private enterprise certain leading ports have not been included. Seattle landings include fish caught by at-sea processing vessels. The record landings for quantity was 848.2 million pounds in Los Angeles, CA in 1960 and for value was $224.1 million in Dutch Harbor-Unalaska, AK in 1994.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Alewives	1,301	292	8	1	-	-	1,309	293
Anchovies	2,853	210	576	32	-	-	3,429	242
Atka mackerel	(3)	(3)	113,712	5,686	-	-	113,712	5,686
Bluefish	5,248	1,772	3,052	993	-	-	8,300	2,765
Blue runner	303	200	306	140	-	-	609	340
Bonito	661	251	1,935	667	-	-	2,596	918
Butterfish	897	525	4,788	2,322	-	-	5,685	2,847
Catfish & bullheads	11,590	5,251	(3)	(3)	-	-	11,590	5,251
Chubs	4,596	1,883	-	-	-	-	4,596	1,883
Cod:								
Atlantic	1,100	1,149	23,414	24,325	-	-	24,514	25,474
Pacific	44,055	7,903	511,937	79,814	-	-	555,992	87,717
Crevalle	314	198	561	289	-	-	875	487
Croaker:					-	-		
Atlantic	18,133	7,136	7,268	2,483	-	-	25,401	9,619
Pacific (white)	33	23	109	77	-	-	142	100
Cusk	96	61	684	451	-	-	780	512
Dolphinfish	3	4	915	1,366	4	5	922	1,375
Eel, American	1,015	3,971	(3)	(3)	-	-	1,015	3,971
Flounders:								
Arrowtooth	871	61	17,309	844	-	-	18,180	905
Winter (blackback)	2,428	3,179	8,816	11,931	-	-	11,244	15,110
Plaice, American	1,055	1,270	7,017	9,029	-	-	8,072	10,299
Summer (fluke)	2,696	5,572	8,514	14,813	-	-	11,210	20,385
Sole:								
Dover	3,595	1,229	18,434	5,347	-	-	22,029	6,576
Flathead	314	40	41,323	761	-	-	41,637	801
Witch (gray)	444	659	3,645	5,881	-	-	4,089	6,540
Petrale	786	738	2,442	2,306	-	-	3,228	3,044
Rock	616	22	32,893	688	-	-	33,509	710
Yellowfin	42	3	177,429	3,551	-	-	177,471	3,554

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Flounders - Continued:								
Yellowtail	424	538	7,636	10,402	-	-	8,060	10,940
Atlantic/Gulf, other	4,830	9,109	1,034	423	-	-	5,864	9,532
Pacific, other	3,276	2,258	43,307	6,151	-	-	46,583	8,409
Total flounders	**21,377**	**24,678**	**369,799**	**72,127**	-	-	**391,176**	**96,805**
Goosefish (anglerfish)	6,180	3,637	51,925	29,916	-	-	58,105	33,553
Groupers	434	904	9,407	19,948	-	-	9,841	20,852
Haddock	327	408	5,925	7,471	-	-	6,252	7,879
Hakes:								
Pacific (whiting)			501,554	19,931	-	-	501,554	19,931
Red	81	19	2,881	750	-	-	2,962	769
Silver (Atl. Whiting)	351	126	32,639	13,243	-	-	32,990	13,369
White	529	356	4,726	3,432	-	-	5,255	3,788
Halibut	3,597	5,248	71,141	100,536	8	10	74,746	105,794
Herring:								
Sea:								
Atlantic	26,241	1,795	153,481	9,062	-	-	179,722	10,857
Pacific	92,289	10,722	7	(3)	-	-	92,296	10,722
Thread	5,674	658	4	(3)	-	-	5,678	658
Jack mackerel	1,259	168	2,186	141	-	-	3,445	309
Lingcod	488	298	966	628	-	-	1,454	926
Mackerels:								
Atlantic	945	251	26,642	4,454	-	-	27,587	4,705
Chub	30,113	1,679	14,912	868	-	-	45,025	2,547
King and cero	454	500	4,750	6,297	-	-	5,204	6,797
Spanish	785	546	2,432	1,261	-	-	3,217	1,807
Menhaden:								
Atlantic	607,220	46,825	1,756	154	-	-	608,976	46,979
Gulf	866,626	44,881	230,076	11,976	-	-	1,096,702	56,857
Total menhaden	**1,473,846**	**91,706**	**231,832**	**12,130**	-	-	**1,705,678**	**103,836**
Mullets	17,845	9,386	76	34	-	-	17,921	9,420
Ocean perch:						-		
Atlantic	31	18	675	401	-	-	706	419
Pacific	90	7	40,573	4,065	-	-	40,663	4,072

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Pollock:								
Atlantic	726	461	11,581	7,640	-	-	12,307	8,101
Walleye (Alaska)	125,658	8,796	2,590,800	181,356	-	-	2,716,458	190,152
Rockfishes:								
Bocaccio	48	25	1,266	493	-	-	1,314	518
Canary	86	50	2,808	1,419	-	-	2,894	1,469
Chilipepper	696	295	2,110	892	-	-	2,806	1,187
Widow	41	17	10,755	3,833	-	-	10,796	3,850
Yellowtail	378	191	7,562	2,815	-	-	7,940	3,006
Other	3,125	1,470	41,182	21,541	-	-	44,307	23,011
Total rockfishes	**4,374**	**2,048**	**65,683**	**30,993**	-	-	**70,057**	**33,041**
Sablefish	6759	14968	36740	76855	-	-	43,499	91,823
Salmon:								
Chinook or king	13,382	15,119	2,847	3,879	-	-	16,229	18,998
Chum or keta	130,931	22,661	8	1	-	-	130,939	22,662
Pink	332,558	45,577	19	3	-	-	332,577	45,580
Red or sockeye	128,740	150,833	1	1	-	-	128,741	150,834
Silver or coho	34,395	18,224	1,552	1,157	-	-	35,947	19,381
Total salmon	**640,006**	**252,414**	**4,427**	**5,041**	-	-	**644,433**	**257,455**
Sardines:								
Pacific	66,665	2,566	27,210	1,047	-	-	93,875	3,613
Spanish	1,079	251	-	-	-	-	1,079	251
Scup or porgy	1,558	2,673	3,356	4,208	-	-	4,914	6,881
Sea bass:								
Black (Atlantic)	548	1,091	2,829	4,251	-	-	3,377	5,342
White (Pacific)	52	97	105	198	-	-	157	295
Sea trout or weakfish:								
Gray	6,058	2,915	2,366	1,145	-	-	8,424	4,060
Spotted	583	840	1	1	-	-	584	841
Sand (white)	109	73	14	7	-	-	123	80
Shad:					-	-		
American	4,276	1,681	99	34	-	-	4,375	1,715
Hickory	95	13	10	1	-	-	105	14

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Fish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Sharks:								
Dogfish	9,195	1,445	39,916	6,694	-	-	49,111	8,139
Other	1,363	568	11,587	5,452	2,503	624	15,453	6,644
Sheepshead (Atlantic)	2,986	1,071	24	9	-	-	3,010	1,080
Skates	9,568	1,320	24,101	3,257	-	-	33,669	4,577
Smelts	1,599	622	218	22	-	-	1,817	644
Snappers:								
Red	173	765	4,084	9,134	-	-	4,257	9,899
Vermillion	28	50	1,031	2,230	-	-	1,059	2,280
Unclassified	242	521	3,372	6,501	-	-	3,614	7,022
Spearfish	15	9	192	113	89	52	296	174
Spot	7,288	2,893	116	41	-	-	7,404	2,934
Striped bass	6,609	9,546	106	153	-	-	6,715	9,699
Swordfish	55	104	11,261	22,236	3,777	6,548	15,093	28,888
Tenpounder (ladyfish)	2,134	1,173	17	5	-	-	2,151	1,178
Tilefish	13	16	3,787	5,995	-	-	3,800	6,011
Trout, Rainbow	789	497	-	-	-	-	789	497
Tuna:								
Albacore	2	2	27,512	17,965	17,180	12,708	44,694	30,675
Bigeye	11	24	6,429	18,087	11,146	10,758	17,586	28,869
Bluefin	6	15	4,488	13,812	2,166	1,620	6,660	15,447
Little tunny	167	30	494	131	-	-	661	161
Skipjack	122	146	1,088	1,267	271,426	102,223	272,636	103,636
Yellowfin	175	373	7,172	15,311	129,144	62,308	136,491	77,992
Unclassified	4	8	185	194	531	203	720	405
Total tuna	**487**	**598**	**47,368**	**66,767**	**431,593**	**189,820**	**479,448**	**257,185**
Whitefish, common	12,519	9,418	-	-	-	-	12,519	9,418
Wolffish, Atlantic	26	14	627	307	-	-	653	321
Yellow perch	1,227	2,637	(3)	(3)	-	-	1,227	2,637
Other marine finfishes	25,451	19,521	31,052	16,187	692	1,025	57,195	36,733
Other freshwater finfishes	12,847	3,914	(3)	(3)	-	-	12,847	3,914
Total finfish	**2,728,294**	**531,528**	**5,121,878**	**883,221**	**438,666**	**198,084**	**8,288,838**	**1,612,833**

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Clams:								
Quahog (hard)	7,193	41,775	1	(3)	-	-	7,194	41,775
Geoduck (Pacific)	1,445	16,025	(3)	(3)	-	-	1,445	16,025
Manila (Pacific)	1,174	8,650	-	-	-	-	1,174	8,650
Ocean quahog	10,110	5,695	29,788	12,663	-	-	39,898	18,358
Softshell	2,815	12,235	-	-	-	-	2,815	12,235
Surf (Atlantic)	26,504	16,496	27,528	12,706	-	-	54,032	29,202
Other	1,401	8,992	(3)	(3)	-	-	1,401	8,992
Total clams	**50,642**	**109,868**	**57,317**	**25,369**	**-**	**-**	**107,959**	**135,237**
Conch (snails)	1425	1808	447	640	-	-	1,872	2,448
Crabs:								
Blue: Hard	217,916	149,141	(3)	(3)	-	-	217,916	149,141
Soft or peeler	6,693	34,316	(3)	(3)	-	-	6,693	34,316
Dungeness	30,359	54,874	3,854	7,020	-	-	34,213	61,894
Jonah	1,411	705	1,357	654	-	-	2,768	1,359
King	1,068	2,511	23,054	54,854	-	-	24,122	57,365
Snow (tanner):								
Opilio	437	245	248,709	139,526	-	-	249,146	139,771
Bairdi	2,685	5,207	(3)	(3)	-	-	2,685	5,207
Other	6,997	6,409	8,176	17,916	-	-	15,173	24,325
Total crabs	**267,566**	**253,408**	**285,150**	**219,970**	**-**	**-**	**552,716**	**473,378**
Crawfish, freshwater	22,226	14,637	-	-	-	-	22,226	14,637
Horseshoe crab	4,019	763	3,151	1,396	-	-	7,170	2,159
Lobsters:								
American	69,378	216,011	10,264	37,624	-	-	79,642	253,635
Spiny	2,271	10,234	3,664	14,146	-	-	5,935	24,380
Mussels, blue (sea)	2,913	1,604	-	-	-	-	2,913	1,604
Oysters	33,538	88,627	(3)	(3)	-	-	33,538	88,627

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Grand Total	
	0 to 3 miles		3 - 200 miles					
Shellfish - Continued	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars	Thousand Pounds	Thousand Dollars
Scallops:								
Bay	105	368	(3)	(3)	-	-	105	368
Calico, Atlantic	(4)	(4)	(4)	(4)	-	-	(4)	(4)
Sea	1,102	7,132	11,959	72,474	-	-	13,061	79,606
Shrimp:								
New England	2,584	2,480	5,548	5,217	-	-	8,132	7,697
South Atlantic	20,007	52,832	3,964	8,509	-	-	23,971	61,341
Gulf	119,090	190,582	110,871	238,587	-	-	229,961	429,169
Pacific	6,839	9,560	8,706	7,213	-	-	15,545	16,773
Other	44	191	88	382	15	64	147	637
Total shrimp	**148,564**	**255,645**	**129,177**	**259,908**	**15**	**64**	**277,756**	**515,617**
Squid:								
Atlantic:								
Illex	5,033	1,355	45,049	8,108	-	-	50,082	9,463
Loligo	5,402	4,302	36,218	27,840	-	-	41,620	32,142
Unclassified	209	70	1,334	207	-	-	1,543	277
Pacific:								
Loligo	5,555	1,414	418	106	-	-	5,973	1,520
Unclassified	235	71	-	-	-	-	235	71
Total, squid	**16,434**	**7,212**	83,019	36,261	-	-	**99,453**	**43,473**
Other shellfish	12,635	11,327	1,633	2,359	-	-	14,268	13,686
Total shellfish	**632,818**	**978,644**	**585,781**	**670,147**	**15**	**64**	**1,218,614**	**1,648,855**
Other								
Sea urchin	30,042	27,319	(3)	(3)	-	-	30,042	27,319
Seaweed, unclassified	56,318	982	-	-	-	-	56,318	982
Kelp (with herring eggs)	315	1,017	(3)	(3)	-	-	315	1,017
Worms	660	3,355	-	-	-	-	660	3,355
Total other	**87,335**	**32,673**	**-**	**-**	**-**	**-**	**87,335**	**32,673**
Grand total, 1998	**3,448,447**	**1,542,845**	**5,707,659**	**1,553,368**	**438,681**	**198,148**	**9,594,787**	**3,294,361**
Grand total, 1997	**3,984,359**	**1,654,195**	**5,819,081**	**1,754,494**	**418,437**	**224,485**	**10,221,877**	**3,633,174**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 LB or $500. (4) Data are confidential and included with other shellfish.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Alewives	590	292	4	1	-	-	594	293
Anchovies	1,294	210	261	32	-	-	1,555	242
Atka mackerel	(3)	(3)	51,579	5,686	-	-	51,579	5,686
Bluefish	2,380	1,772	1,384	993	-	-	3,765	2,765
Blue runner	137	200	139	140	-	-	276	340
Bonito	300	251	878	667	-	-	1,178	918
Butterfish	407	525	2,172	2,322	-	-	2,579	2,847
Catfish & bullheads	5,257	5,251	-	-	-	-	5,257	5,251
Chubs	2,085	1,883	-	-	-	-	2,085	1,883
Cod:								
Atlantic	499	1,149	10,621	24,325	-	-	11,119	25,474
Pacific	19,983	7,903	232,213	79,814	-	-	252,196	87,717
Crevalle	142	198	254	289	-	-	397	487
Croaker:						-		
Atlantic	8,225	7,136	3,297	2,483	-	-	11,522	9,619
Pacific (white)	15	23	49	77	-	-	64	100
Cusk	44	61	310	451	-	-	354	512
Dolphinfish	1	4	415	1,366	2	5	418	1,375
Eel, American	460	3,971	(3)	(3)	-	-	460	3,971
Flounders:								
Arrowtooth	395	61	7,851	844	-	-	8,246	905
Winter (blackback)	1,101	3,179	3,999	11,931	-	-	5,100	15,110
Plaice, American	479	1,270	3,183	9,029	-	-	3,661	10,299
Summer (fluke)	1,223	5,572	3,862	14,813	-	-	5,085	20,385
Sole:								
Dover	1,631	1,229	8,362	5,347	-	-	9,992	6,576
Flathead	142	40	18,744	761	-	-	18,886	801
Witch (gray)	201	659	1,653	5,881	-	-	1,855	6,540
Petrale	357	738	1,108	2,306	-	-	1,464	3,044
Rock	279	22	14,920	688	-	-	15,200	710
Yellowfin	19	3	80,481	3,551	-	-	80,500	3,554

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Flounders - Continued:								
Yellowtail	192	538	3,464	10,402	-	-	3,656	10,940
Atlantic/Gulf, other	2,191	9,109	469	423	-	-	2,660	9,532
Pacific, other	1,486	2,258	19,644	6,151	-	-	21,130	8,409
Total Flounders	**9,697**	**24,678**	**369,799**	**72,127**	**-**	**-**	**177,436**	**96,805**
Goosefish (anglerfish)	2,803	3,637	23,553	29,916	-	-	26,356	33,553
Groupers	197	904	4,267	19,948	-	-	4,464	20,852
Haddock	148	408	2,688	7,471	-	-	2,836	7,879
Hakes:								
Pacific (whiting)	-	-	227,503	19,931	-	-	227,503	19,931
Red	37	19	1,307	750	-	-	1,344	769
Silver (Atl. Whiting)	159	126	14,805	13,243	-	-	14,964	13,369
White	240	356	2,144	3,432	-	-	2,384	3,788
Halibut	1,632	5,248	32,269	100,536	4	10	33,905	105,794
Herring:								
Sea:								
Atlantic	11,903	1,795	69,619	9,062	-	-	81,521	10,857
Pacific	41,862	10,722	3	(3)	-	-	41,865	10,722
Thread	2,574	658	2	(3)	-	-	2,576	658
Jack mackerel	571	168	992	141	-	-	1,563	309
Lingcod	221	298	438	628	-	-	660	926
Mackerels:								
Atlantic	429	251	12,085	4,454	-	-	12,513	4,705
Chub	13,659	1,679	6,764	868	-	-	20,423	2,547
King and cero	206	500	2,155	6,297	-	-	2,361	6,797
Spanish	356	546	1,103	1,261	-	-	1,459	1,807
Menhaden:								
Atlantic	275,433	46,825	797	154	-	-	276,230	46,979
Gulf	393,099	44,881	104,362	11,976	-	-	497,461	56,857
Total menhaden	**668,532**	**91,706**	**105,158**	**12,130**	**-**	**-**	**773,690**	**103,836**
Mullets	8,094	9,386	34	34	-	-	8,129	9,420
Ocean perch:						-		
Atlantic	14	18	306	401	-	-	320	419
Pacific	41	7	18,404	4,065	-	-	18,445	4,072

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Pollock:								
Atlantic	329	461	5,253	7,640	-	-	5,582	8,101
Walleye (Alaska)	56,998	8,796	1,175,179	181,356	-	-	1,232,177	190,152
Rockfishes:								
Bocaccio	22	25	574	493	-	-	596	518
Canary	39	50	1,274	1,419	-	-	1,313	1,469
Chilipepper	316	295	957	892	-	-	1,273	1,187
Widow	19	17	4,878	3,833	-	-	4,897	3,850
Yellowtail	171	191	3,430	2,815	-	-	3,602	3,006
Other	1,417	1,470	18,680	21,541	-	-	20,098	23,011
Total rockfishes	**1,984**	**2,048**	**29,794**	**30,993**	**-**	**-**	**31,778**	**33,041**
Sablefish	3,066	14,968	16,665	76,855	-	-	19,731	91,823
Salmon:								
Chinook or king	6,070	15,119	1,291	3,879	-	-	7,361	18,998
Chum or keta	59,390	22,661	4	1	-	-	59,394	22,662
Pink	150,847	45,577	9	3	-	-	150,856	45,580
Red or sockeye	58,396	150,833	0	1	-	-	58,397	150,834
Silver or coho	15,601	18,224	704	1,157	-	-	16,305	19,381
Total salmon	**290,305**	**252,414**	**2,008**	**5,041**	**-**	**-**	**292,313**	**257,455**
Sardines:								
Pacific	30,239	2,566	12,342	1,047	-	-	42,581	3,613
Spanish	489	251	-	-	-	-	489	251
Scup or porgy	707	2,673	1,522	4,208	-	-	2,229	6,881
Sea bass:								
Black (Atlantic)	249	1,091	1,283	4,251	-	-	1,532	5,342
White (Pacific)	24	97	48	198	-	-	71	295
Sea trout or weakfish:								
Gray	2,748	2,915	1,073	1,145	-	-	3,821	4,060
Spotted	264	840	(3)	1	-	-	264	841
Sand (white)	49	73	6	7	-	-	56	80
Shad:					-	-		
American	1,940	1,681	45	34	-	-	1,984	1,715
Hickory	43	13	5	1	-	-	48	14

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Fish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Sharks:								
Dogfish	4,171	1,445	18,106	6,694	-	-	22,277	8,139
Other	618	568	5,256	5,452	1,135	624	7,009	6,644
Sheepshead (Atlantic)	1,354	1,071	11	9	-	-	1,365	1,080
Skates	4,340	1,320	10,932	3,257	-	-	15,272	4,577
Smelts	725	622	99	22	-	-	824	644
Snappers:								
Red	78	765	1,852	9,134	-	-	1,931	9,899
Vermillion	13	50	468	2,230	-	-	480	2,280
Unclassified	110	521	1,530	6,501	-	-	1,639	7,022
Spearfish	7	9	87	113	40	52	134	174
Spot	3,306	2,893	53	41	-	-	3,358	2,934
Striped bass	2,998	9,546	48	153	-	-	3,046	9,699
Swordfish	25	104	5,108	22,236	1,713	6,548	6,846	28,888
Tenpounder (ladyfish)	968	1,173	8	5	-	-	976	1,178
Tilefish	6	16	1,718	5,995	-	-	1,724	6,011
Trout, Rainbow	358	497	-	-	-	-	358	497
Tuna:								
Albacore	1	2	12,479	17,965	7,793	12,708	20,273	30,675
Bigeye	5	24	2,916	18,087	5,056	10,758	7,977	28,869
Bluefin	3	15	2,036	13,812	982	1,620	3,021	15,447
Little tunny	76	30	224	131	-	-	300	161
Skipjack	55	146	494	1,267	123,118	102,223	123,667	103,636
Yellowfin	79	373	3,253	15,311	58,579	62,308	61,912	77,992
Unclassified	2	8	84	194	241	203	327	405
Total tuna	**221**	**598**	**21,486**	**66,767**	**195,769**	**189,820**	**217,476**	**257,185**
Whitefish, common	5,679	9,418	-	-	-	-	5,679	9,418
Wolffish, Atlantic	12	14	284	307	-	-	296	321
Yellow perch	557	2,637	(3)	(3)	-	-	557	2,637
Other marine finfishes	11,544	19,521	14,085	16,187	314	1,025	25,943	36,733
Other freshwater finfishes	5,827	3,914	(3)	(3)	-	-	5,827	3,914
Total finfish	**1,237,546**	**531,528**	**2,323,269**	**883,221**	**198,978**	**198,084**	**3,759,792**	**1,612,833**

See footnotes at end of table

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Shellfish	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Clams:								
Quahog (hard)	3,263	41,775	(3)	(3)	-	-	3,263	41,775
Geoduck (Pacific)	655	16,025	(3)	(3)	-	-	655	16,025
Manila (Pacific)	533	8,650	-	-	-	-	533	8,650
Ocean quahog	4,586	5,695	13,512	12,663	-	-	18,098	18,358
Softshell	1,277	12,235	-	-	-	-	1,277	12,235
Surf (Atlantic)	12,022	16,496	12,487	12,706	-	-	24,509	29,202
Other	635	8,992	(3)	(3)	-	-	635	8,992
Total clams	**22,971**	**109,868**	**25,999**	**25,369**	**-**	**-**	**48,969**	**135,237**
Conch (snails)	646	1,808	203	640	-	-	849	2,448
Crabs:								
Blue: Hard	98,846	149,141	(3)	(3)	-	-	98,846	149,141
Soft or peeler	3,036	34,316	(3)	(3)	-	-	3,036	34,316
Dungeness	13,771	54,874	1,748	7,020	-	-	15,519	61,894
Jonah	640	705	616	654	-	-	1,256	1,359
King	484	2,511	10,457	54,854	-	-	10,942	57,365
Snow (tanner):								
Opilio	198	245	112,814	139,526	-	-	113,012	139,771
Bairdi	1,218	5,207	(3)	(3)	-	-	1,218	5,207
Other	3,174	6,409	3,709	17,916	-	-	6,882	24,325
Total crabs	**121,367**	**253,408**	**129,343**	**219,970**	**-**	**-**	**250,710**	**473,378**
Crawfish, freshwater	10,082	14,637	-	-	-	-	10,082	14,637
Horseshoe crab	1,823	763	1,429	1,396	-	-	3,252	2,159
Lobsters:								
American	31,470	216,011	4,656	37,624	-	-	36,125	253,635
Spiny	1,030	10,234	1,662	14,146	-	-	2,692	24,380
Mussels, blue (sea)	1,321	1,604	-	-	-	-	1,321	1,604
Oysters	15,213	88,627	(3)	(3)	-	-	15,213	88,627

See footnotesat end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1998 (1)

Species	Distance from U.S. shores				High Seas or off Foreign Shores		Total	
	0 to 3 miles		3 to 200 miles					
Shellfish - Continued	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars	Metric Tons	Thousand Dollars
Scallops:								
Bay.	48	368	-	-	-	-	48	368
Calico, Atlantic	(4)	(4)	(4)	(4)	-	-	(4)	(4)
Sea	500	7,132	5,425	72,474	-	-	5,924	79,606
Shrimp:								
New England	1,172	2,480	2,517	5,217	-	-	3,689	7,697
South Atlantic	9,075	52,832	1,798	8,509	-	-	10,873	61,341
Gulf	54,019	190,582	50,291	238,587	-	-	104,310	429,169
Pacific	3,102	9,560	3,949	7,213	-	-	7,051	16,773
Other	20	191	40	382	7	64	67	637
Total shrimp	**67,388**	**255,645**	**58,594**	**259,908**	**7**	**64**	**125,989**	**515,617**
Squid:								
Atlantic:								
Illex	2,283	1,355	20,434	8,108	-	-	22,717	9,463
Loligo	2,450	4,302	16,428	27,840	-	-	18,879	32,142
Unclassified	95	70	605	207	-	-	700	277
Pacific:								
Loligo	2,520	1,414	190	106	-	-	2,709	1,520
Unclassified	107	71	-	-	-	-	107	71
Total, squid	**7,454**	**7,212**	**37,657**	**36,261**	-	-	**45,112**	**43,473**
Other shellfish	5,731	11,327	741	2,359	-	-	6,472	13,686
Total shellfish	**287,044**	**978,644**	**265,709**	**670,147**	**7**	**64**	**552,760**	**1,648,855**
Other						-		
Sea urchin	13,627	27,319	(3)	(3)	-	-	13,627	27,319
Seaweed, unclassified	25,546	982	-	-	-	-	25,546	982
Kelp (with herring eggs)	143	1,017	(3)	(3)	-	-	143	1,017
Worms	299	3,355	-	-	-	-	299	3,355
Total other	**39,615**	**32,673**	**-**	**-**	**-**	**-**	**39,615**	**32,673**
Grand total, 1998	**1,564,205**	**1,542,845**	**2,588,977**	**1,553,368**	**198,984**	**198,148**	**4,352,167**	**3,294,361**
Grand total, 1997	**1,805,907**	**1,654,195**	**2,639,518**	**1,754,494**	**189,802**	**189,802**	**4,635,227**	**3,408,689**

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance-from-shore landings for data collected by the Service and States. (2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States. (3) Less than 500 MT or $500. (4) Data are confidential and included with other shellfish.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States and catches by U.S.-flag vessels unloaded onto foreign vessels within the EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page 1. There may also be differences in totals due to rounding. Data do not include aquaculture products, except oysters or clams

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1)

Group / Species	Puerto Rico		Guam	
Fish	Pounds	Dollars	Pounds	Dollars
Ballyhoo	36,968	43,622	-	-
Barracuda	25,468	39,985	2,056	4,046
Billfish:				
Marlin	-	-	28,833	33,141
Sailfish	-	-	1,746	2,295
Spearfish	-	-	88	109
Dolphin (Mahi mahi)	124,586	237,959	173,478	318,766
Emperors	-	-	1,343	3,947
Goatfish	16,682	26,858	580	1,739
Groupers:				
Red hind	48,840	100,610	-	-
Nassau	10,546	18,139	-	-
Other	41,600	85,280	957	2,659
Grunts				
Margate	1,618	2,556	-	-
Other	119,306	171,801	-	-
Jacks:				
Amberjack	-	-	259	743
Bigeye Scad	-	-	5,206	14,190
Rainbow Runner	-	-	1,211	2,744
Rudderfish	-	-	394	1,181
Other	62,354	87,296	2,706	7,382
Mackerel, king and cero	200,656	373,220	-	-
Milkfish	-	-	563	844
Mojarra	20,472	28,661		
Mullet	55,866	65,922	96	256
Parrotfish	113,794	154,760	7,807	23,327
Rabbitfish	-	-	2,172	6,767
Scup or porgy	30,372	48,291		
Sharks, other	46,514	76,283	16	8
Snappers:				
Ehu	-	-	246	967
Gindai (Flower Snap)	-	-	755	2,859
Kalikali	-	-	314	1,099
Lane	176,842	364,295	-	-
Lehi	-	-	1,624	6,495
Mutton	80,854	172,219	-	-
Onaga	-	-	908	4,307
Opakapaka	-	-	730	2,892
Silk	168,778	448,949	-	-
Uku (Gray Snapper)	-	-	431	1,218
Yellowtail	241,608	488,048	-	-
Other	72,878	148,671	1,639	4,535
Total snappers	**740,960**	**1,622,182**	**6,647**	**24,372**
Snook	42,934	73,417	-	-
Spanish sardine	15,894	21,775	-	-
Squirrelfish	21,310	26,424	111	333
Surgeonfishes:				
Unicornfish	-	-	5,820	17,423
Other	-	-	810	2,419
Tarpon	620	595	-	-
Tilapia	-	-	12,188	30,944
Triggerfish	63,262	101,219	-	-
Trunkfish (boxfish)	77,804	150,940	-	-

(Continued)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

Group / Species	Puerto Rico		Guam	
Fish	Pounds	Dollars	Pounds	Dollars
Tuna:				
Dogtooth	-	-	2,148	3,453
Kawakawa	-	-	31	39
Skipjack	-	-	61,332	76,522
Yellowfin	-	-	55,967	121,116
Unclassified	133,130	177,063	-	-
Total tuna	**133,130**	**177,063**	**119,478**	**201,130**
Wahoo	-	-	67,136	145,828
Wrasse (Hogfish)	54,766	108,984	3,066	7,645
Other marine finfishes	-	-	106,975	317,208
Other freshwater fish	503,116	337,108	-	-
Total fish	**2,609,438**	**4,180,950**	**677,867**	**1,396,948**
Shellfish, et al				
Crabs, other	6,422	105,000	-	-
Lobster, spiny	250,842	1,347,022	1,808	7,045
Conch (snail) meats	301,812	724,349	-	-
Oysters	1,754	3,824	-	-
Octopus	27,682	72,250	2,223	7,516
Shrimp	-	-	1,592	12,645
Shellfish, other	14,484	41,714	93	381
Total shellfish, et al.	**602,996**	**2,294,159**	**5,716**	**27,587**
Grand total	**3,212,434**	**6,475,109**	**557,458**	**2,821,483**

Group / Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Barracudas	2,120	4,597	124	246
Billfishes:				
Blue marlin	35,646	40,269	4,201	7,460
Sailfish	3,327	4,966	104	210
Dolphin (mahimahi)	22,220	44,559	25,661	55,516
Emperors	869	1,739	13,853	38,784
Goatfish	43	85	1,698	3,684
Groupers:				
Lunartail	680	1,377	-	-
Other	4,221	8,450	7,864	23,424
Jacks:				
Amberjack	-	-	318	1,051
Bigeye Scad	-	-	515	1,691
Black jack	181	331	-	-
Rainbow runner	783	783	754	1,884
Rudderfish	291	581	-	-
Other	1,000	2,038	2,380	7,915
Moonfish (Opah)	443	886	-	-
Mullet	-	-	125	311
Oilfish	123	61	-	-
Parrotfishes	22,464	45,436	1,366	4,263
Rabbitfish	68	137	5,903	19,159
Snappers:				
Blue lined snapper	616	1,257	-	-
Ehu	1,459	4,667	198	665
Gindai (flower snapper)	249	600	1,295	4,374
Gray jobfish	323	645	-	-
Humpback	459	1,013	-	-
Kalikali	-	-	591	2,515

(Continued)

DOMESTIC LANDINGS FOR U.S. TERRITORIAL POSSESSIONS, 1998 (1) - Continued

Group / Species	American Samoa		Northern Marianas Islands	
Fish	Pounds	Dollars	Pounds	Dollars
Lehi (silverjaw)	250	779	6,028	24,054
Onaga	3,440	16,128	14,691	63,486
Opakapaka	-	-	2,729	8,769
Stone's snapper	172	343	-	-
Yellow opakapaka	374	842	-	-
Snappers, other	750	1,521	1,746	4,831
Total snappers	**8,092**	**27,795**	**27,278**	**108,694**
Squirrelfish	1,099	2,230	2,530	5,085
Sunfish (Mola mola)	366	366	-	-
Surgeonfishes:				
Lined surgeon	15,787	31,502	-	-
Striped bristletooth	8,141	16,068	-	-
Unicornfishes	4,038	8,236	210	525
Yellowfin	465	823	-	-
Other			99	256
Swordfish	3,326	11,879	-	-
Tunas:				
Albacore	636,622	683,254	-	-
Bigeye	5,478	11,741	-	-
Dogtooth	401	737	18,033	43,469
Kawakawa	20	24	-	-
Skipjack	16,672	15,171	167,274	334,648
Yellowfin	67,249	128,655	14,570	31,949
Other	726,442	839,582	2,766	5,786
Total, tuna	**1,452,884**	**1,679,164**	**202,643**	**415,852**
Wahoo	26,110	51,042	6,299	14,540
Wrasses	471	943	-	-
Other finfishes	4,901	9,731	213,048	520,714
Total fish	**1,628,251**	**2,023,869**	**544,251**	**1,339,958**
Shellfish, et al				
Crabs	528	2,062	-	-
Lobster, spiny	3,359	13,319	5,586	30,175
Octopus	340	522	764	2,118
Shellfish, Other	2	3	183	958
Total shellfish, et al.	**4,229**	**15,906**	**6,533**	**33,251**
Grand total	**3,260,731**	**4,063,644**	**1,095,035**	**2,713,167**

(1) Data in this table are preliminary and represent the latest information available.

ESTIMATED U.S. AQUACULTURE PRODUCTION, 1992 - 1997

Species	1992			1993		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	20,618	9,352	61,183	20,574	9,332	63,033
Catfish	457,367	207,460	273,506	459,013	208,207	325,432
Salmon	23,937	10,858	75,193	25,279	11,466	68,358
Striped bass	3,550	1,610	8,266	5,950	2,699	14,270
Tilapia	9,500	4,309	10,260	12,500	5,670	15,625
Trout	56,264	25,521	53,942	54,642	24,785	54,309
Shellfish:						
Clams	4,282	1,942	11,539	6,125	2,778	12,096
Crawfish	63,032	28,591	34,860	56,784	25,757	28,518
Mussels	282	128	1,162	308	140	927
Oysters	23,986	10,880	82,432	24,399	11,067	76,139
Shrimp (SW)	4,409	2,000	17,637	6,614	3,000	26,455
Miscellaneous	23,955	10,866	94,207	6,613	3,000	97,232
Totals	**691,182**	**313,518**	**724,187**	**678,801**	**307,902**	**782,394**

Species	1994			1995		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	21,709	9,847	68,714	21,759	9,870	72,522
Catfish	439,269	199,251	344,475	446,886	202,706	351,222
Salmon	24,714	11,210	61,915	31,315	14,204	75,991
Striped bass	7,625	3,459	18,835	8,315	3,772	21,156
Tilapia	12,980	5,888	16,225	15,075	6,838	22,613
Trout	52,075	23,621	52,569	55,934	25,371	61,447
Shellfish:						
Clams	4,872	2,210	14,023	4,325	1,962	19,709
Crawfish	49,080	22,263	26,994	58,146	26,375	34,714
Mussels	424	192	1,249	410	186	1,221
Oysters	28,016	12,708	69,928	23,221	10,533	70,628
Shrimp (SW)	4,409	2,000	17,637	2,205	1,000	8,818
Miscellaneous	20,462	9,282	58,545	23,359	10,596	75,243
Totals	**665,635**	**301,930**	**751,109**	**690,950**	**313,413**	**815,284**

Species	1996			1997		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Finfish:						
Baitfish	20,849	9,457	70,254	19,929	9,040	73,580
Catfish	472,123	214,154	364,951	524,949	238,115	372,497
Salmon	30,657	13,906	60,995	39,745	18,028	65,053
Striped bass	7,850	3,561	20,308	8,400	3,810	21,783
Tilapia	15,965	7,242	23,948	16,860	7,648	29,505
Trout	53,620	24,322	56,958	56,710	25,723	60,212
Shellfish:						
Clams	3,834	1,739	20,315	8,141	3,693	30,878
Crawfish	46,584	21,130	34,820	49,232	22,331	49,232
Mussels	986	447	5,085	2,985	1,354	3,365
Oysters	18,546	8,412	64,368	15,737	8,289	39,031
Shrimp (SW)	2,866	1,300	11,464	2,646	1,200	10,582
Miscellaneous	19,813	8,987	152,169	22,625	9,930	177,994
Totals	**693,693**	**314,657**	**885,635**	**767,959**	**348,344**	**933,712**

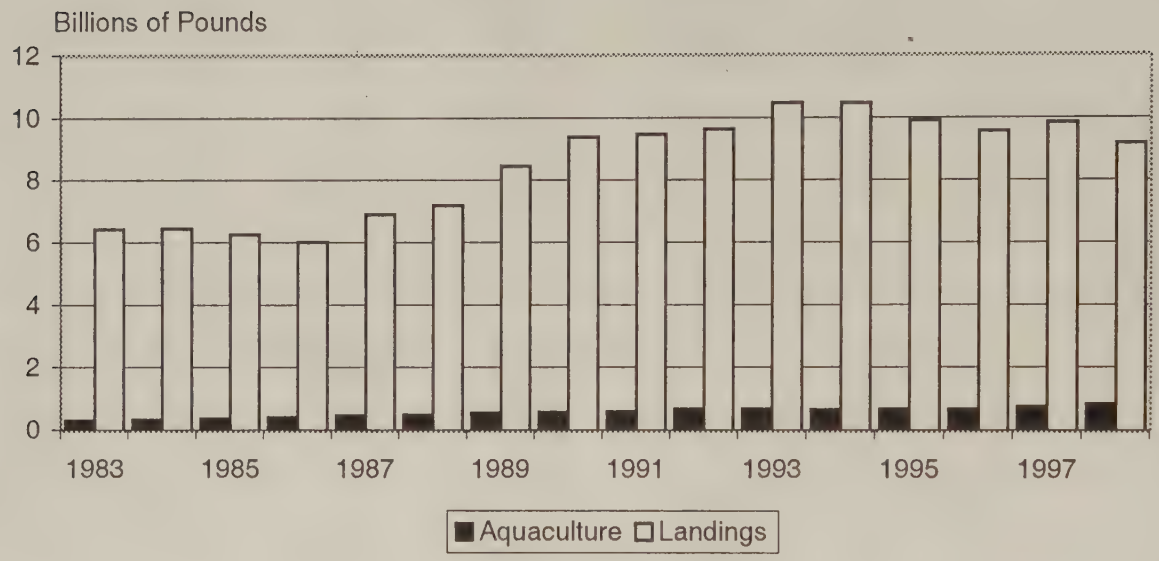
SW:--Saltwater.

NOTE:--Table may not add due to rounding. Clams, oysters and mussels are reported as meat weights (excludes shell) while other identified species such as shrimp and finfishes are reported as whole (live) weights. Some clam and oyster aquaculture production are reported with U.S. commercial landings. Weights and values represent the final sales of products to processors and dealers. "Miscellaneous" includes ornamental/tropical fish, alligators, algae, aquatic plants, eels, scallops, crabs, and others. The high value and low production of "Miscellaneous" occurs because production value, but not weight, are reported for many species such as ornamental fishes.

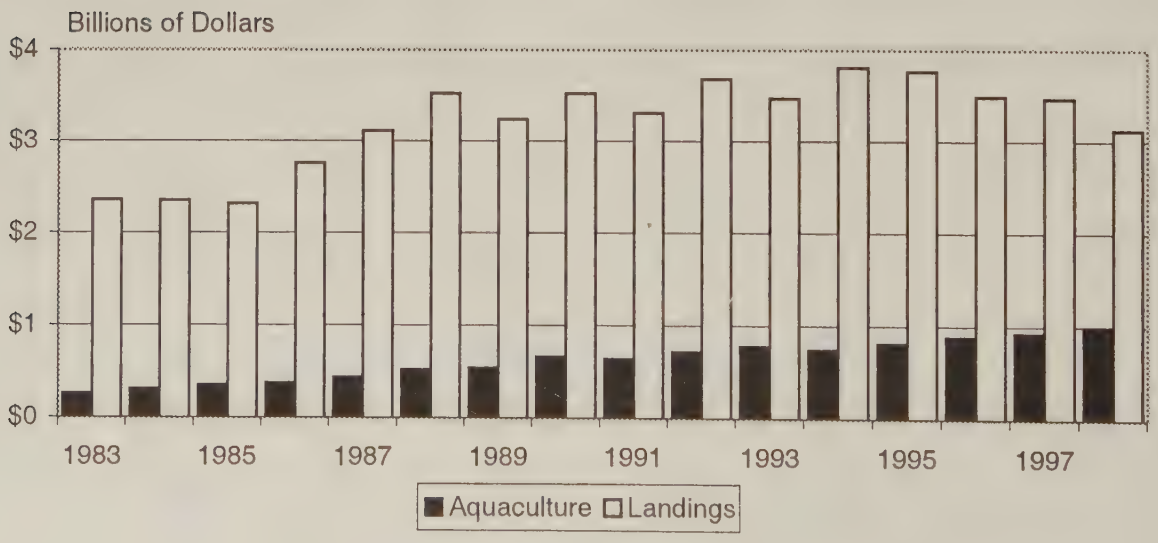
Source:--Fisheries Statistics and Economics Division, F/ST1, NMFS.

U.S. COMMERCIAL LANDINGS

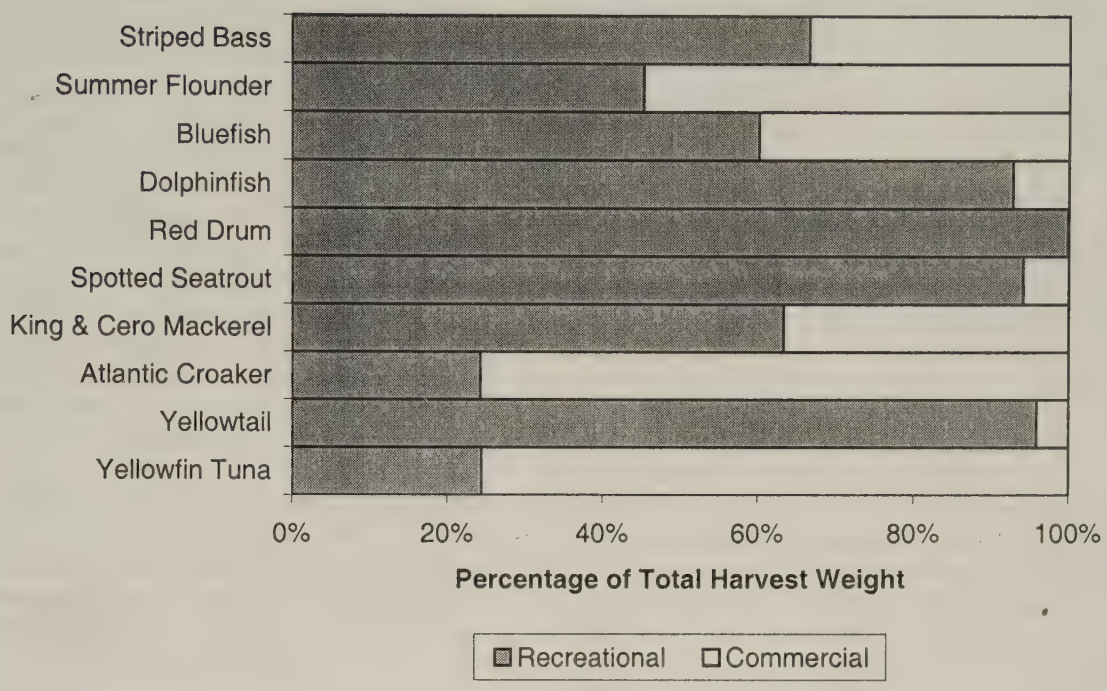
Volume of U.S. Domestic Commercial Landings and Aquaculture Production



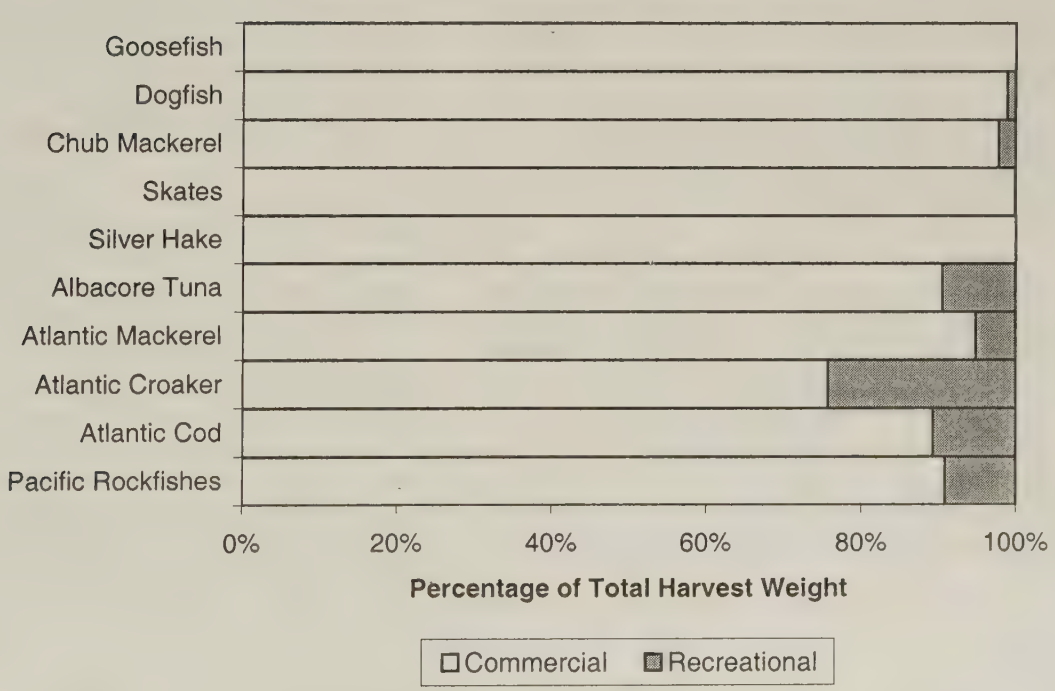
Value of U.S. Domestic Commercial Landings and Aquaculture Production



Top 10 Recreational Species - Harvest (A1 + B1) Versus Commercial Harvest - 1998



Top 10 Commercial Species Versus Recreational Harvest - 1998



Comparisons between the U.S. commercial landings and recreational fish harvests do not include data for Alaska, Hawaii, and Texas because no NMFS recreational surveys were conducted. Menhaden, Pacific Hake, Atlantic Sea Hearing and Pacific Sardine were excluded from the commercial landings because they are industrial fisheries and recreational anglers do not target them.

DATA COLLECTION. Data on commercial fisheries were collected for many years, yet before 1979 there was no continuous, systematic collection of marine recreational fishery data. In 1979, NMFS began the comprehensive Marine Recreational Fishery Statistical Survey (MRFSS). Data collected through the MRFSS show that recreational fisheries have tremendous impacts on fish stocks. For several important species recreational landings surpass commercial landings (see figure on preceding page). Detailed information on marine recreational fishing is required to support a variety of fishery management and development purposes and is mandated by the Sustainable Fisheries Act, Public Law 94-265.

The MRFSS consists of an intercept survey of anglers in the field and a telephone survey of coastal county households. The intercept survey collects data on species composition, catch rates, and fish lengths and weights. The telephone survey collects data on the number of marine fishing trips. These independent data are combined to produce estimates of catch, effort, and participation. Catch is divided into three categories – **type A, type B1 and type B2**. Type A catch is fish that were caught, landed whole and were available for identification, enumeration, weighing and measuring by trained MRFSS field personnel. Type B1 catch includes fish that were caught, filleted, released dead, given away, or disposed of in some other way so that the interviewer could not verify the species, sizes, or numbers reported. Fish that were caught and reported as released alive are in Type B2 category. Estimates are generated by subregion, state, wave (bimonthly sampling period), species, mode, primary area fished and catch type. In addition, economic and demographic data are also obtained.

The MRFSS is being conducted in 1999 along the coast of the entire continental United States, except the states of Texas and Alaska. Sampling coverage varies across the time series (see coverage section). Detailed information and access to the data are available on the Fisheries Statistics and Economics web page (www.st.nmfs.gov/st1). Data from other NMFS and state surveys (SE head boats, Texas, California Passenger Fishing Vessels, Oregon/Washington ocean boats, Pacific salmon, Alaska) are not included in this report.

DATA TABLES. The estimated number of fish caught and weight of the harvest are presented for 128 commonly caught species. The estimated total harvest includes a) fish brought ashore in whole form that were identified, weighed, and measured (A1); and b) fish that were not available for identification (B1). The latter type includes fish used for bait, discarded, filleted or released alive. Harvest does not include fish that were released alive (B2). Estimated catch and harvest is presented by subregion and primary fishing area: inland [sounds, rivers, bays], state territorial seas [ocean to 3 miles from shore, except for Florida's Gulf coast, where state territorial seas extend to 10 miles from shore], and Exclusive Economic Zone (EEZ) [ocean from the edge of the state territorial seas to 200 miles from shore]. The total number of estimated trips and participants are presented by state.

1998 MRFSS DATA. In 1998, over 7.5 million people made 60 million marine recreational fishing trips to the Atlantic, Gulf and Pacific coasts. The estimated marine recreational finfish catch was 312 million fish. Over 55 percent of the number caught were released alive. The estimated total weight of the harvest was 195 million pounds.

The Atlantic and Gulf coasts accounted for 77 percent of the participants, 88 percent of the fishing trips, and 91 percent of the marine recreational finfish catch. Most (56 percent) of the catch came from inland waters, 34 percent from state territorial seas, and 10 percent from the EEZ. The distribution is different for the Atlantic and Gulf coasts versus the Pacific coast. On the Atlantic and Gulf the majority of the trips were from inland waters, while on the Pacific coast more trips were from the state territorial seas.

ATLANTIC AND GULF. In 1998, 5.8 million marine recreational fishing participants took 53 million trips and caught a total of 284 million fish. The estimated number of Atlantic and Gulf coast trips decreased from a five-year high of 61 million trips in 1997 to 53 million in 1998. The estimated number of people engaged in marine recreational fishing on the Atlantic and Gulf coast ranged from a low of 5.8 million in 1998 to a high of 7.6 million in 1994. By subregion, the Gulf of Mexico accounted for the highest numbers of fish caught (44 percent) followed by the Mid-Atlantic (29 percent). Thirty percent of the recreational fishing trips were made in the South Atlantic, 30 percent in the Gulf of Mexico, 27 percent in the Mid-Atlantic, and 13 percent in the North Atlantic.

The most commonly caught non-bait species (numbers of fish) were Atlantic croaker, spotted sea trout, summer flounder, striped bass, bluefish, and black sea bass. Top-ranked non-bait species (catch in numbers) by subregion were striped bass in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted sea trout in the Gulf of Mexico. By weight, the largest harvests were striped bass, summer flounder, bluefish, dolphin, red drum, spotted sea trout, and king mackerel. The average weight for all fish combined was 1.4 pounds while the average weights for the top species were 2.9 pounds for bluefish, 9.3 for striped bass, 4.5 for red drum, 6.4 for dolphin, 1.2 for spotted sea trout, 1.8 for summer flounder, and 9.0 for king mackerel.

The catch of striped bass increased steadily and dramatically since 1990 with a catch of nearly 16.5 million fish in 1998. Over 91 percent of striped bass were released alive in 1998. Spotted sea trout, bluefish and Atlantic croaker catches remained relatively steady from 1994-1998. Summer flounder catches increased from 16 million in 1995 to nearly 22 million in 1998.

Ten percent of the catch on the Atlantic and Gulf coasts came from the EEZ. The most commonly caught species in federally managed waters were black sea bass, red snapper, summer flounder, dolphin, striped bass, bluefish and Atlantic cod.

PACIFIC. In 1998, 1.7 million marine recreational fishing participants took 7.0 million trips and caught a total of 28 million fish. Seventy percent of the trips were made in California, followed by 21 percent in Washington, and 9 percent in Oregon.

The most commonly caught non-bait species (numbers of fish) were Pacific (chub) mackerel, surf smelt, kelp bass, Pacific barracuda, black rockfish and barred sand bass. By weight, the largest harvests were yellowtail, black rockfish, Pacific barracuda, lingcod, California halibut and blue rockfish. The average weight for all fish combined was 1.7 pounds. Average weights for some of the top species were: 8.9 pounds for California halibut, 2.1 pounds for black rockfish, 8.5 pounds for yellowtail, 4.6 for Pacific barracuda and 8.0 pounds for lingcod.

Surf smelt jumped from the 1993-1995 average of a little over a million fish to almost 5 million fish in 1998. Pacific barracuda catch has shown no real trend since 1994, ranging from a low of 584,000 fish in 1996 to a high of 1.8 million fish in 1994. Pacific mackerel reached a 4-year high in 1996 with 6.0 million fish caught.

Fifteen percent of the total marine recreational catch on the Pacific coast came from the EEZ. The most commonly caught Pacific coast species in federally managed waters were Pacific mackerel, yellowtail, Pacific barracuda, barred sand bass, blue rockfish, kelp bass, and yellowtail rockfish. The percent of the catch from the state territorial sea was about 43 percent in 1998, while the inland catch increased from 13-17 percent in the early 1990's to 42 percent for 1998.

Coverage of MRFSS Survey
1979-1998

The Marine Recreational Fisheries Statistics Survey provides coverage of saltwater sport fishing (including estuarine and brackish water) from private/rental boats, charter and head boats, and the shore on the Atlantic Coast (Maine-East Florida), Gulf Coast (Louisiana-West Florida), and Pacific coast (Washington through California).

Special care is advised when comparing catch estimates for the MRFSS time series because of differences in sampling coverage.

- In the South Atlantic and Gulf sub-regions (NC-LA) the MRFSS has not collected catch data from head boats since 1985, so estimates for these sub-regions now only include charter boats in the for-hire sector.
- Marine recreational fishing in Texas is monitored by the Texas Department of Parks and Wildlife and has not been surveyed by the MRFSS since 1985.
- On the Pacific coast, ocean boat trips during certain waves (bimonthly sampling periods) and salmon trips are not sampled because they are surveyed by the state natural resource agencies.
- Alaska conducts an annual mail survey and has never been surveyed by the MRFSS.
- The U.S. Caribbean and West Pacific territories have not been surveyed by the MRFSS since 1981 and their data are not included in currently available data.

There are other exceptions where the following areas were not sampled during the period specified:

Exceptions to MRFSS Coverage:

Jan/Feb - All regions - 1981
Nov/Dec - ME & NH - 1987-present
CA-WA - 1990-1992
Jan/Feb - No.CA-OR - 1994
Nov/Dec - OR - 1994
Jan/Feb - ME-GA - 1982-present
Mar/Apr - ME & NH - 1996-present
WA - 1993-1994
Jan/Feb - So.CA-OR - 1995

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Anchovies**							
Northern Anchovy	(1)	(1)	58	(1)	(1)	(1)	(1)
Other Anchovies	(1)	(1)	(1)	-	-	-	(1)
Barracudas	1,698	770	160	1,104	501	142	1,606
Bluefish	14,490	6,574	5,553	12,534	5,687	4,359	14,574
California Scorpionfish	206	93	243	185	84	160	242
Cartilaginous Fishes							
Dogfish Sharks**	546	248	157	545	247	166	427
Skates/Rays**	263	120	114	101	46	69	160
Other Sharks**	3,204	1,454	288	2,604	1,182	276	4,892
Catfishes**							
Freshwater Catfishes	560	254	312	783	355	444	634
Saltwater Catfishes	1,303	591	590	855	388	507	1,057
Cods And Hakes							
Atlantic Cod	2,621	1,189	474	2,952	1,339	463	3,558
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Hake	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Tomcod	5	2	16	(1)	(1)	(1)	(1)
Pollock	432	196	152	280	127	183	488
Red Hake	471	214	341	138	63	113	221
Other Cods/Hakes	119	54	58	151	69	77	160
Croakers							
California Corbina	15	7	13	32	15	15	27
Queenfish	9	4	40	10	5	42	22
White Croaker	328	149	583	162	74	434	346
Other Croakers	204	93	138	221	100	119	213
Dolphins**	22,740	10,317	2,255	11,778	5,344	1,829	15,935
Drums							
Atlantic Croaker	8,076	3,664	11,928	8,120	3,684	9,886	6,150
Black Drum	2,351	1,067	632	2,489	1,129	655	2,131
Kingfishes	1,936	878	3,155	1,573	714	2,740	1,742
Red Drum	12,807	5,811	2,503	9,445	4,285	2,107	11,584
Sand Seatrout	1,452	659	2,337	1,739	789	2,663	1,993
Silver Perch	41	19	226	162	74	549	128
Spot	2,702	1,226	6,321	2,971	1,348	6,781	3,053
Spotted Seatrout	10,805	4,903	8,972	9,377	4,255	7,613	10,893
Weakfish**	3,686	1,672	2,809	3,991	1,811	2,352	2,855
Other Drum	185	84	457	99	45	170	120
Eels**	16	7	24	2	1	12	11
Flounders							
California Halibut**	875	397	97	939	426	106	1,237
Gulf Flounder	424	192	283	203	92	152	225
Rock Sole	38	17	39	13	6	14	14
Sanddabs	155	70	446	99	45	259	108
Southern Flounder	1,483	673	934	1,112	505	746	1,457
Starry Flounder	9	4	9	19	9	17	11
Summer Flounder	11,878	5,389	7,178	12,567	5,702	6,965	9,941
Winter Flounder	1,500	681	1,271	700	318	631	1,391
Other Flounders**	798	362	135	858	389	174	447

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Greenlings							
Kelp Greenling	164	74	142	117	53	98	130
Lingcod	878	398	126	1,283	582	160	1,011
Other Greenlings	19	9	31	7	3	12	21
Grunts							
Pigfish	396	180	1,098	318	144	896	457
White Grunt	1,546	702	2,063	1,182	536	1,713	1,727
Other Grunts	582	264	1,275	288	131	672	343
Herrings**	1,853	841	35,647	915	415	25,443	1,109
Jacks							
Blue Runner	889	403	1,428	1,195	542	1,786	935
Crevalle Jack	1,575	715	939	772	350	449	1,404
Florida Pompano	458	208	384	632	287	486	380
Greater Amberjack	1,694	768	82	1,242	564	86	1,906
Yellowtail	3,233	1,467	648	5,697	2,585	673	2,037
Other Jacks	243	110	1,366	389	177	485	343
Mullets**	2,410	1,093	2,792	2,410	1,093	2,842	2,362
Pacific Barracuda	1,699	771	374	2,057	933	450	1,854
Porgies							
Pinfishes	1,803	818	8,361	2,517	1,142	7,254	1,724
Red Porgy	85	39	79	66	30	69	136
Scup**	1,205	547	1,923	870	395	1,205	1,651
Sheepshead	4,850	2,201	2,056	4,012	1,820	1,606	5,411
Other Porgies**	393	178	385	106	48	157	216
Puffers	151	69	280	67	30	145	112
Rockfishes							
Black Rockfish	1,173	532	592	2,459	1,116	1,178	1,414
Blue Rockfish	651	296	651	859	390	841	596
Bocaccio	116	53	64	124	56	40	190
Brown Rockfish	109	50	99	92	42	81	92
Canary Rockfish	178	81	114	185	84	107	197
Chilipepper Rockfish	3	(1)	(1)	(1)	(1)	(1)	30
Copper Rockfish	166	75	98	241	109	157	210
Greenspotted Rockfish	32	14	42	33	15	40	91
Olive Rockfish	74	34	56	110	50	77	90
Quillback Rockfish	79	36	44	97	44	53	53
Rockfishes	56	25	69	78	35	102	95
Widow Rockfish	59	27	48	98	44	67	44
Yellowtail Rockfish	450	204	349	447	203	274	304
Other Rockfishes**	650	295	757	751	341	1,108	1,235
Sablefishes	15	7	2	(1)	(1)	(1)	(1)
Sculpins							
Cabezon	195	89	65	293	133	91	219
Sculpins	18	8	73	18	8	38	21
Sea Basses							
Barred Sand Bass	790	359	523	685	311	408	1,043
Black Sea Bass	5,074	2,302	5,696	1,656	751	1,684	4,929
Epinephelus Groupers**	910	413	147	975	442	153	1,462
Kelp Bass	767	348	467	511	232	326	930
Mycteroperca Groupers**	3,489	1,583	498	4,327	1,963	635	3,290
Spotted Sand Bass	66	30	52	22	10	17	76
Other Sea Basses	109	49	497	100	45	310	129

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY SPECIES, 1997 AND 1998

Species	1997			1998			Average (1993-97)
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds
Sea Chubs**							
Halfmoon	28	12	27	-	-	-	39
Opaleye	37	17	30	-	-	-	68
Other Sea Chubs	(1)	(1)	(1)	-	-	-	(1)
Searobins	242	110	238	105	48	200	126
Silversides							
Jacksmelt	162	73	422	149	68	366	203
Other Silversides	7	3	70	3	2	29	11
Smelts**							
Surf Smelt	120	54	1,616	357	162	4,825	233
Other Smelts	(1)	(1)	(1)	-	-	-	(1)
Snappers							
Gray Snapper	1,249	567	996	1,355	615	1,006	1,317
Lane Snapper	404	183	424	225	102	211	276
Red Snapper	4,543	2,061	1,152	4,136	1,876	1,253	3,655
Vermilion Snapper	415	188	401	310	141	275	464
Yellowtail Snapper	551	250	375	389	177	311	493
Other Snappers**	322	146	95	256	116	75	321
Sturgeons	549	249	20	566	257	32	500
Surfperches							
Barred Surfperch	231	105	331	534	242	646	316
Black Perch	54	24	57	62	28	94	54
Pile Perch	43	19	45	49	22	60	52
Redtail Surfperch	36	16	41	91	41	92	73
Shiner Perch	13	6	231	4	2	85	10
Silver Surfperch	27	12	82	12	5	43	17
Striped Seaperch	104	47	110	179	81	199	127
Walleye Surfperch	50	23	159	15	7	59	34
White Seaperch	10	4	24	5	2	22	11
Other Surfperches	72	33	99	55	25	135	55
Temperate Basses							
Striped Bass	16,448	7,463	1,620	13,379	6,071	1,472	12,674
White Perch	1,150	522	2,679	608	276	1,816	808
Other Temperate Basses	(1)	(1)	(1)	7	3	6	(1)
Toadfishes	(1)	(1)	33	2	1	10	(1)
Triggerfishes/Filefishes	1,076	488	506	689	312	349	1,057
Tunas And Mackerels							
Atlantic Mackerel	3,825	1,736	4,548	1,506	684	1,859	2,993
King Mackerel**	11,918	5,407	1,163	8,305	3,768	921	9,755
Little Tunny / Atl.Bonito**	3,381	1,534	394	2,699	1,225	347	3,127
Pacific Bonito**	422	191	114	347	157	71	311
Spanish Mackerel	3,532	1,602	2,245	2,865	1,300	1,727	2,936
Other Tunas/Mackerels**	17,802	8,077	2,967	13,773	6,249	2,129	16,623
Wrasses							
California Sheephead	114	52	35	153	69	47	157
Cunner	33	15	94	10	4	94	54
Tautog	2,196	996	698	1,448	657	351	2,996
Other Wrasses	240	109	98	95	43	63	235
Other Fishes**	10,932	4,960	5,557	6,824	3,096	5,646	17,461
Total Fish	**234,128**	**106,226**	**163,585**	**194,628**	**88,308**	**135,517**	--

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.

NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Flounders												
California Halibut**	(1)	(1)	(1)	854	387	96	(1)	(1)	(1)	940	425	105
Gulf Flounder	(1)	(1)	(1)	142	65	102	49	22	44	204	93	153
Rock Sole	(1)	(1)	(1)	12	6	13	(1)	(1)	(1)	12	6	14
Sanddabs	4	2	18	71	32	170	24	11	70	99	45	258
Southern Flounder	17	8	12	872	395	576	223	101	158	1,112	504	746
Starry Flounder	-	-	-	(1)	(1)	(1)	11	5	10	19	9	16
Summer Flounder	665	302	358	11,335	5,143	6,280	567	257	327	12,567	5,702	6,965
Winter Flounder	33	15	29	600	272	543	67	30	59	700	317	631
Other Flounders**	(1)	(1)	(1)	694	315	122	3	1	43	858	389	174
Greenlings												
Kelp Greenling	(1)	(1)	(1)	86	39	63	26	12	30	117	53	97
Lingcod	213	97	27	1,003	455	123	68	31	11	1,284	583	161
Other Greenlings	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	7	3	13
Grunts												
Pigfish	(1)	(1)	(1)	203	92	547	113	51	343	318	144	896
White Grunt	148	67	167	963	437	1,396	71	32	150	1,182	536	1,713
Other Grunts	(1)	(1)	(1)	179	81	424	106	48	241	289	131	671
Herrings**	(1)	(1)	87	486	221	16,276	428	194	9,080	914	415	25,443
Jacks												
Blue Runner	70	32	76	322	146	452	803	364	1,257	1,195	542	1,785
Crevalle Jack	(1)	(1)	(1)	377	171	157	382	173	285	772	350	449
Florida Pompano	19	9	12	293	133	189	321	146	285	633	288	486
Greater Amberjack	941	427	48	282	128	22	19	9	16	1,242	564	86
Yellowtail	1,503	682	185	4,194	1,903	488	-	-	-	5,697	2,585	673
Other Jacks	151	69	30	157	71	243	81	37	212	389	177	485
Mullets**	(1)	(1)	(1)	1,176	533	1,620	1,230	558	1,221	2,410	1,093	2,842
Pacific Barracuda	1,175	533	259	882	400	191	(1)	(1)	(1)	2,058	933	450
Porgies												
Pinfishes	(1)	(1)	(1)	1,886	856	4,402	625	284	2,846	2,516	1,142	7,254
Red Porgy	59	27	62	(1)	(1)	(1)	-	-	-	66	30	69
Scup**	169	77	165	650	295	924	51	23	116	870	395	1,205
Sheepshead	95	43	27	3,067	1,392	1,210	850	386	368	4,012	1,821	1,605
Other Porgies**	22	10	28	65	30	67	18	8	62	105	48	157
Puffers	(1)	(1)	(1)	42	19	88	25	11	56	67	30	145

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Northern Anchovy	-	-	-	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Barracudas	697	316	72	260	118	49	147	67	22	1,104	501	143
Bluefish	3,110	1,411	643	7,191	3,263	2,087	2,234	1,014	1,629	12,535	5,688	4,359
California Scorpionfish	112	51	102	72	33	58	(1)	(1)	(1)	185	84	161
Cartilaginous Fishes												
Dogfish Sharks**	61	28	21	480	218	142	(1)	(1)	(1)	545	248	166
Skates/Rays**	(1)	(1)	(1)	63	29	33	37	17	35	101	46	69
Other Sharks**	525	238	22	1,577	715	169	502	228	84	2,604	1,181	275
Catfishes**												
Freshwater Catfishes	(1)	(1)	(1)	454	206	260	328	149	184	784	356	445
Saltwater Catfishes	(1)	(1)	(1)	462	210	268	387	176	237	855	389	508
Cods And Hakes												
Atlantic Cod	1,977	897	324	974	442	139	-	-	-	2,951	1,339	463
Pacific Cod	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Hake	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pacific Tomcod	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Pollock	59	27	54	84	38	100	136	62	29	279	127	183
Red Hake	136	62	111	(1)	(1)	(1)	(1)	(1)	(1)	138	63	113
Other Cods/Hakes	60	27	22	87	40	29	4	2	27	151	69	78
Croakers												
California Corbina	-	-	-	(1)	(1)	(1)	30	14	14	32	15	15
Queenfish	-	-	-	4	2	16	6	3	26	10	5	42
White Croaker	6	3	13	74	34	165	82	37	257	162	74	435
Other Croakers	(1)	(1)	(1)	144	66	30	62	28	87	221	101	119
Dolphins**	7,177	3,256	1,165	4,601	2,088	664	(1)	(1)	(1)	11,778	5,344	1,829
Drums												
Atlantic Croaker	457	207	569	6,827	3,098	7,770	835	379	1,547	8,119	3,684	9,886
Black Drum	193	87	21	1,793	814	493	503	228	140	2,489	1,129	654
Kingfishes	19	8	28	705	320	1,182	849	385	1,530	1,573	713	2,740
Red Drum	1,181	536	142	7,517	3,410	1,789	747	339	177	9,445	4,285	2,108
Sand Seatrout	60	27	74	1,390	631	2,076	290	131	513	1,740	789	2,663
Silver Perch	(1)	(1)	(1)	78	35	264	84	38	285	162	73	549
Spot	47	21	112	1,791	812	3,664	1,133	514	3,005	2,971	1,347	6,781
Spotted Seatrout	617	280	477	8,046	3,651	6,547	714	324	590	9,377	4,255	7,614
Weakfish**	196	89	147	3,577	1,623	2,015	218	99	190	3,991	1,811	2,352
Other Drum	(1)	(1)	(1)	87	40	131	11	5	37	99	46	171
Eels**	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2	1	12

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	777	353	377	1,647	747	784	35	16	17	2,459	1,116	1,178
Blue Rockfish	466	211	467	390	177	370	(1)	(1)	(1)	860	390	841
Bocaccio	78	36	28	46	21	12	-	-	-	124	57	40
Brown Rockfish	15	7	14	76	35	65	(1)	(1)	(1)	92	43	80
Canary Rockfish	112	51	56	73	33	50	-	-	-	185	84	106
Chilipepper Rockfish	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Copper Rockfish	54	24	32	184	84	123	(1)	(1)	(1)	241	109	157
Greenspotted Rockfish	20	9	27	13	6	13	-	-	-	33	15	40
Olive Rockfish	48	22	35	62	28	42	-	-	-	110	50	77
Quillback Rockfish	(1)	(1)	(1)	88	40	48	(1)	(1)	(1)	96	44	53
Rockfishes	20	9	32	51	23	60	6	3	10	77	35	102
Widow Rockfish	92	42	63	(1)	(1)	(1)	-	-	-	98	45	67
Yellowtail Rockfish	327	148	190	120	54	84	-	-	-	447	202	274
Other Rockfishes**	301	137	644	432	196	450	18	8	15	751	341	1,109
Sablefishes	(1)	(1)	(1)	(1)	(1)	(1)	-	-	-	(1)	(1)	(1)
Sculpins												
Cabezon	(1)	(1)	(1)	175	80	43	98	44	43	294	133	91
Sculpins	(1)	(1)	(1)	10	4	15	6	3	21	19	8	39
Sea Basses												
Barred Sand Bass	243	110	155	435	197	248	(1)	(1)	(1)	685	310	407
Black Sea Bass	855	388	865	781	354	796	19	9	23	1,655	751	1,684
Epinephelus Groupers**	255	116	37	715	324	115	(1)	(1)	(1)	975	442	153
Kelp Bass	180	82	138	324	147	181	(1)	(1)	(1)	510	232	326
Mycteroperca Groupers**	1,841	835	233	2,243	1,018	345	243	110	57	4,327	1,963	635
Spotted Sand Bass	(1)	(1)	(1)	18	8	14	(1)	(1)	(1)	22	10	17
Other Sea Basses	8	4	15	84	38	272	8	3	22	100	45	309
Sea Chubs**												
Halfmoon	(1)	(1)	(1)	11	5	15	(1)	(1)	(1)	15	7	21
Opaleye	(1)	(1)	(1)	18	8	33	54	25	54	72	33	87
Searobins	3	1	12	77	35	144	25	11	43	105	47	199
Silversides												
Jacksmelt	(1)	(1)	(1)	18	8	39	131	59	327	149	67	366
Other Silversides	-	-	-	(1)	(1)	(1)	3	2	29	3	2	29
Surf Smelt	-	-	-	(1)	(1)	(1)	357	162	4,817	357	162	4,826

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY MODE OF FISHING AND SPECIES GROUP, 1998

Species	Mode of fishing									Grand Total		
	Charter boat			Private/Rental boat			Shore					
	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)	Thousand pounds	Metric tons	Total Numbers (thousands)
Snappers												
Gray Snapper	225	102	91	898	407	698	232	105	217	1,355	614	1,006
Lane Snapper	52	24	51	169	77	157	(1)	(1)	(1)	224	102	211
Red Snapper	3,013	1,367	1,013	1,122	509	240	(1)	(1)	(1)	4,135	1,876	1,253
Vermilion Snapper	284	129	249	26	12	27	-	-	-	310	141	276
Yellowtail Snapper	163	74	137	227	103	174	(1)	(1)	(1)	390	177	311
Other Snappers**	67	31	19	164	74	48	(1)	(1)	(1)	256	116	75
Sturgeons	(1)	(1)	(1)	514	233	30	(1)	(1)	(1)	566	257	32
Surfperches												
Barred Surfperch	-	-	-	(1)	(1)	(1)	532	241	644	534	242	646
Black Perch	(1)	(1)	(1)	16	7	29	45	20	65	61	27	94
Pile Perch	-	-	-	20	9	23	29	13	37	49	22	60
Redtail Surfperch	-	-	-	(1)	(1)	(1)	91	41	92	91	41	92
Shiner Perch	-	-	-	(1)	(1)	(1)	4	2	84	4	2	86
Silver Surfperch	-	-	-	(1)	(1)	(1)	11	5	41	12	5	43
Striped Seaperch	-	-	-	17	8	23	162	74	176	179	82	199
Walleye Surfperch	-	-	-	(1)	(1)	(1)	15	7	57	16	7	59
White Seaperch	-	-	-	(1)	(1)	(1)	4	2	18	4	2	22
Other Surfperches	(1)	(1)	(1)	14	6	15	41	19	118	55	25	134
Temperate Basses												
Striped Bass	1,928	875	188	10,107	4,586	1,149	1,345	610	135	13,380	6,071	1,472
White Perch	(1)	(1)	(1)	416	189	1,123	191	87	691	607	276	1,815
Other Temperate Basses	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Toadfishes	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	2	1	10
Triggerfishes/Filefishes	396	179	201	277	126	139	(1)	(1)	(1)	689	312	349
Tunas And Mackerels												
Atlantic Mackerel	240	109	248	1,121	508	1,266	145	66	345	1,506	683	1,859
King Mackerel**	4,958	2,250	518	3,255	1,477	326	92	42	77	8,305	3,769	921
Little Tunny/Atlantic Bonito**	1,821	826	229	871	395	117	(1)	(1)	(1)	2,700	1,224	347
Pacific Bonito**	167	76	34	169	77	35	(1)	(1)	(1)	347	158	71
Spanish Mackerel	391	178	210	1,554	705	809	920	417	707	2,865	1,300	1,726
Other Tunas/Mackerels**	8,174	3,709	729	5,321	2,414	809	278	126	591	13,773	6,249	2,129
Wrasses												
California Sheephead	36	16	17	113	51	30	(1)	(1)	(1)	153	69	49
Cunner	(1)	(1)	(1)	2	1	19	5	2	67	9	4	94
Tautog	244	111	55	1,040	472	255	164	75	41	1,448	658	351
Other Wrasses	(1)	(1)	(1)	91	41	59	(1)	(1)	(1)	96	43	63
Other Fishes**	1,163	528	205	6,639	3,012	3,454	750	340	1,987	8,552	3,880	5,646
Grand Total	**51,381**	**23,318**	**13,425**	**121,537**	**55,145**	**82,404**	**21,711**	**9,847**	**39,688**	**194,629**	**88,310**	**135,517**

(1) Number of fish less than or equal to 10,000 or less than 1 metric ton.
NOTE:-- ** Fish included in these groups are not equivalent to those with names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles[1] (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Northern Anchovy	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-	(2)	(2)	(2)
Barracudas	133	60	40	400	182	46	571	259	56	1,104	501	142
Bluefish	5,180	2,350	2,228	4,067	1,845	1,605	3,287	1,492	526	12,534	5,687	4,359
California Scorpionfish	(2)	(2)	(2)	95	43	78	81	37	74	185	84	160
Cartilaginous Fishes												
Dogfish Sharks**	467	212	137	18	8	11	60	27	18	545	247	166
Skates/Rays**	41	19	46	53	24	22	(2)	(2)	(2)	101	46	69
Other Sharks**	604	274	127	605	275	89	1,395	633	60	2,604	1,182	276
Catfishes**												
Freshwater Catfishes	767	348	432	16	7	13	-	-	-	783	355	445
Saltwater Catfishes	527	239	309	323	147	196	(2)	(2)	(2)	854	388	507
Cods And Hakes												
Atlantic Cod	(2)	(2)	(2)	195	88	33	2,730	1,239	427	2,952	1,339	463
Pacific Cod	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Pacific Hake	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Pacific Tomcod	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-	(2)	(2)	(2)
Pollock	145	66	48	34	15	45	101	46	90	280	127	183
Red Hake	(2)	(2)	(2)	12	5	13	126	57	100	138	62	113
Other Cods/Hakes	7	3	26	(2)	(2)	(2)	142	64	43	151	68	77
Croakers												
California Corbina	(2)	(2)	(2)	30	13	14	-	-	-	32	14	15
Queenfish	7	3	25	3	2	18	-	-	-	10	5	43
White Croaker	105	47	275	54	24	151	(2)	(2)	(2)	163	73	434
Other Croakers	10	5	14	180	82	92	31	14	13	221	101	119
Dolphins**	106	48	20	400	181	109	11,272	5,114	1,700	11,778	5,343	1,829
Drums												
Atlantic Croaker	7,248	3,289	8,535	511	232	914	360	164	437	8,119	3,685	9,886
Black Drum	1,911	867	492	500	227	143	78	36	20	2,489	1,130	655
Kingfishes	586	266	1,033	935	424	1,644	52	24	62	1,573	714	2,739
Red Drum	6,853	3,109	1,707	2,130	966	341	461	209	58	9,444	4,284	2,106
Sand Seatrout	1,336	606	2,031	316	144	520	87	40	111	1,739	790	2,662
Silver Perch	89	40	295	74	33	254	*	*	*	163	73	549
Spot	1,917	870	4,049	1,007	457	2,614	46	21	118	2,970	1,348	6,781
Spotted Seatrout	6,774	3,074	5,710	2,318	1,052	1,709	285	129	195	9,377	4,255	7,614
Weakfish**	2,945	1,336	1,765	922	419	513	124	56	74	3,991	1,811	2,352
Other Drum	76	34	104	22	10	60	(2)	(2)	(2)	100	45	170
Eels**	1	(2)	10	(2)	(2)	(2)	(2)	(2)	(2)	2	1	13

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles[1] (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Flounders												
California Halibut**	415	188	45	451	205	52	(2)	(2)	(2)	939	426	106
Gulf Flounder	98	44	77	95	43	69	(2)	(2)	(2)	204	92	152
Rock Sole	13	6	13	(2)	(2)	(2)	(2)	(2)	(2)	13	6	13
Sanddabs	74	34	178	18	8	56	8	3	24	100	45	258
Southern Flounder	803	364	553	290	132	185	(2)	(2)	(2)	1,112	505	747
Starry Flounder	17	8	16	(2)	(2)	(2)	(2)	(2)	(2)	19	9	17
Summer Flounder	8,996	4,082	5,042	2,814	1,277	1,492	757	343	431	12,567	5,702	6,965
Winter Flounder	610	277	552	58	26	44	32	14	35	700	317	631
Other Flounders**	502	228	101	42	19	53	314	142	20	858	389	174
Greenlings												
Kelp Greenling	79	36	61	36	16	33	(2)	(2)	(2)	118	54	97
Lingcod	319	145	39	639	290	83	326	148	38	1,284	583	160
Other Greenlings	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	7	4	12
Grunts												
Pigfish	210	95	583	90	41	262	18	8	51	318	144	896
White Grunt	280	127	469	391	178	531	510	231	712	1,181	536	1,712
Other Grunts	55	25	114	217	98	492	16	7	65	288	130	671
Herrings**	802	364	19,377	110	50	5,216	3	2	850	915	416	25,443
Jacks												
Blue Runner	484	220	741	511	232	760	200	91	284	1,195	543	1,785
Crevalle Jack	374	169	240	362	164	189	36	16	20	772	349	449
Florida Pompano	331	150	213	301	137	272	(2)	(2)	(2)	632	287	485
Greater Amberjack	19	9	16	(2)	(2)	(2)	1,123	509	62	1,242	563	86
Yellowtail	(2)	(2)	(2)	1,501	681	170	4,139	1,878	494	5,696	2,584	673
Other Jacks	73	33	134	162	74	190	154	70	161	389	177	485
Mullets**	1,618	734	1,956	756	343	821	35	16	65	2,409	1,093	2,842
Pacific Barracuda	(2)	(2)	(2)	1,139	517	251	899	408	195	2,057	934	451
Porgies												
Pinfishes	1,710	776	4,502	657	298	2,205	150	68	547	2,517	1,142	7,254
Red Porgy	-	-	-	17	8	18	49	22	51	66	30	69
Scup**	550	249	866	157	71	207	163	74	132	870	394	1,205
Sheepshead	3,068	1,392	1,256	820	372	316	125	57	34	4,013	1,821	1,606
Other Porgies**	33	15	67	37	17	61	35	16	28	105	48	156
Puffers	53	24	111	13	6	30	(2)	(2)	(2)	67	31	145

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles[1] (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Rockfishes												
Black Rockfish	450	204	137	1,652	750	874	356	162	168	2,458	1,116	1,179
Blue Rockfish	(2)	(2)	(2)	598	271	575	258	117	262	860	390	841
Bocaccio	(2)	(2)	(2)	27	12	12	97	44	28	125	56	40
Brown Rockfish	(2)	(2)	(2)	65	30	58	21	9	17	92	42	80
Canary Rockfish	(2)	(2)	(2)	67	30	53	108	49	51	185	83	107
Chilipepper Rockfish	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Copper Rockfish	130	59	92	83	38	51	27	12	14	240	109	157
Greenspotted Rockfish	(2)	(2)	(2)	(2)	(2)	(2)	29	13	35	33	14	41
Olive Rockfish	(2)	(2)	(2)	68	31	46	42	19	30	110	50	77
Quillback Rockfish	76	34	42	(2)	(2)	(2)	(2)	(2)	(2)	96	44	53
Rockfishes	6	3	10	60	27	74	12	5	18	78	35	102
Widow Rockfish	(2)	(2)	(2)	(2)	(2)	(2)	92	42	64	98	45	67
Yellowtail Rockfish	(2)	(2)	(2)	96	44	74	342	155	196	447	203	273
Other Rockfishes**	54	25	32	337	153	516	360	163	560	751	341	1,108
Sablefishes	-	-	-	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)
Sculpins												
Cabezon	95	43	34	170	77	50	(2)	(2)	(2)	294	133	92
Sculpins	13	6	33	(2)	(2)	(2)	(2)	(2)	(2)	17	8	38
Sea Basses												
Barred Sand Bass	64	29	44	373	169	220	249	113	144	686	311	408
Black Sea Bass	99	45	117	191	87	215	1,366	620	1,352	1,656	752	1,684
Epinephelus Groupers	(2)	(2)	(2)	94	43	21	832	378	124	974	443	152
Kelp Bass	25	11	17	393	178	251	93	42	58	511	231	326
Mycteroperca Groupers	507	230	107	823	373	135	2,997	1,360	394	4,327	1,963	636
Spotted Sand Bass	18	8	14	(2)	(2)	(2)	(2)	(2)	(2)	22	10	17
Other Sea Basses	14	6	64	42	19	108	44	20	138	100	45	310
Sea Chubs**												
Halfmoon	(2)	(2)	(2)	10	5	10	(2)	(2)	(2)	15	7	20
Opaleye	16	7	23	56	25	64	-	-	-	72	32	87
Searobins	70	32	95	29	13	97	(2)	(2)	(2)	105	48	200
Silversides												
Jacksmelt	125	57	291	23	11	74	(2)	(2)	(2)	148	68	366
Other Silversides	1	(2)	10	3	1	19	-	-	-	4	1	29
Surf Smelt	151	69	2,419	206	94	2,406	-	-	-	357	163	4,825

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1), BY DISTANCE FROM SHORE AND SPECIES GROUP, 1998

Species	Distance from U.S. shores									Grand Total		
	Inland			0 to 3 miles (1) (State Territorial Sea)			3 to 200 miles (Exclusive Economic Zone)					
	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)	Thousand Pounds	Metric Tons	Total Numbers (thousands)
Snappers												
Gray Snapper	439	199	474	554	251	387	362	164	146	1,355	614	1,007
Lane Snapper	39	18	39	120	55	97	65	30	75	224	103	211
Red Snapper	(2)	(2)	(2)	849	385	258	3,261	1,480	991	4,135	1,876	1,254
Vermilion Snapper	(2)	(2)	(2)	38	17	39	273	124	236	311	141	275
Yellowtail Snapper	(2)	(2)	(2)	197	89	137	192	87	174	389	176	311
Other Snappers**	64	29	27	86	39	23	106	48	26	256	116	76
Sturgeons	390	177	24	(2)	(2)	(2)	(2)	(2)	(2)	567	257	32
Surfperches												
Barred Surfperch	65	30	74	469	213	572	-	-	-	534	243	646
Black Perch	42	19	64	18	8	28	(2)	(2)	(2)	61	28	95
Pile Perch	46	21	56	(2)	(2)	(2)	(2)	(2)	(2)	48	22	60
Redtail Surfperch	10	4	14	81	37	78	-	-	-	91	41	92
Shiner Perch	3	1	61	1	(2)	24	-	-	-	4	1	85
Silver Surfperch	(2)	(2)	(2)	10	5	35	-	-	-	12	6	43
Striped Seaperch	88	40	120	91	41	79	(2)	(2)	(2)	179	81	199
Walleye Surfperch	6	3	18	10	4	41	(2)	(2)	(2)	16	7	59
White Seaperch	4	2	15	(2)	(2)	(2)	(2)	(2)	(2)	5	3	22
Other Surfperches	30	14	64	25	11	68	(2)	(2)	(2)	55	25	135
Temperate Basses												
Striped Bass	8,046	3,651	1,069	3,844	1,744	286	1,490	676	117	13,380	6,071	1,472
White Perch	596	271	1,810	(2)	(2)	(2)	(2)	(2)	(2)	607	276	1,816
Other Temperate Basses	(2)	(2)	(2)	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)
Toadfishes	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	2	1	10
Triggerfishes/Filefishes	41	19	19	247	112	137	400	181	193	689	312	349
Tunas And Mackerels												
Atlantic Mackerel	662	300	822	364	165	472	480	218	565	1,506	683	1,859
King Mackerel**	135	61	15	2,679	1,216	344	5,491	2,491	561	8,305	3,768	920
Little Tunny/Atlantic Bonito**	136	62	18	939	426	118	1,625	737	211	2,700	1,225	347
Pacific Bonito**	(2)	(2)	(2)	163	74	34	179	81	37	347	157	72
Spanish Mackerel	782	355	598	1,421	645	818	663	301	310	2,866	1,301	1,726
Other Tunas/Mackerels**	312	142	278	1,009	458	763	12,452	5,650	1,088	13,773	6,250	2,129
Wrasses												
California Sheephead	(2)	(2)	(2)	129	58	36	22	10	12	153	69	49
Cunner	7	3	73	(2)	(2)	13	(2)	(2)	(2)	10	4	94
Tautog	782	355	219	368	167	74	298	135	57	1,448	657	350
Other Wrasses	(2)	(2)	(2)	33	15	22	60	27	34	95	43	62
Other Fishes**	3,306	1,500	3,837	2,989	1,356	1,078	2,257	1,024	731	8,552	3,880	5,646
Total Fish	**77,609**	**35,212**	**80,270**	**49,417**	**22,423**	**37,441**	**67,601**	**30,674**	**17,802**	**194,627**	**88,309**	**135,513**

(1) Except West Florida where the state territorial seas extend 0 to 10 miles. (2) Number of fish less than or equal to 10,000 or less than 1 metric ton.
NOTE:-- ** Fish included in these groups are not equivalent to those with similar names listed in the commercial tables.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Barracudas			Bluefish		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	857	99	409	40,973	14,100	5,415
1990	1,225	158	301	30,905	11,567	5,306
1991	1,349	227	755	33,957	12,420	6,831
1992	1,105	173	627	24,775	7,479	4,511
1993	1,323	196	592	20,636	5,917	4,384
1994	1,656	211	695	15,988	6,056	6,349
1995	1,623	243	665	14,771	5,371	5,568
1996	1,951	228	604	15,085	4,779	5,592
1997	1,698	160	428	14,490	5,553	7,549
1998	1,104	142	381	12,534	4,359	5,248

Year	Cartilaginous Fishes			Catfishes		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	8,558	904	3,652	1,859	1,756	11,126
1990	4,983	640	3,253	2,285	1,774	12,642
1991	2,467	681	4,068	3,770	2,479	16,741
1992	5,075	545	4,113	2,180	1,704	12,862
1993	5,293	645	4,707	2,159	1,764	12,018
1994	4,349	597	5,903	1,886	1,595	14,223
1995	10,635	590	5,354	1,527	1,237	13,289
1996	5,149	554	6,084	1,544	983	8,084
1997	4,013	559	6,725	1,863	902	10,532
1998	3,250	511	6,610	1,638	952	7,529

Year	Cods and Hakes			Dolphins		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	9,374	3,261	1,379	13,495	2,678	245
1990	9,749	3,254	1,038	12,773	1,840	85
1991	10,562	2,803	950	17,205	2,618	524
1992	2,994	1,178	472	9,788	1,318	166
1993	7,485	1,954	1,477	10,894	1,762	177
1994	5,123	1,636	1,590	12,795	2,215	236
1995	5,823	1,623	1,603	19,787	2,280	333
1996	4,048	883	828	12,573	1,675	233
1997	3,650	1,041	782	22,740	2,255	231
1998	3,524	841	1,036	11,778	1,829	178

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Drums			Flounders		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	35,336	34,844	24,150	9,915	8,393	4,390
1990	23,936	30,262	31,030	9,854	8,311	8,128
1991	40,235	49,309	56,407	13,136	10,954	12,773
1992	35,271	40,646	35,462	10,101	7,303	8,775
1993	33,675	38,144	39,677	13,253	10,526	20,422
1994	38,698	48,718	48,959	13,815	9,891	15,377
1995	41,853	41,236	41,477	11,354	6,737	15,930
1996	38,687	34,840	37,656	15,317	10,840	16,499
1997	44,041	39,340	49,910	17,161	10,390	16,795
1998	39,967	35,516	42,883	16,511	9,063	18,838

Year	Grunts			Herrings		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	2,186	4,645	5,323	486	10,575	4,754
1990	2,384	4,503	4,704	903	13,516	7,331
1991	3,176	5,125	10,713	3,082	31,300	2,641
1992	2,979	4,831	6,757	2,034	23,974	4,959
1993	2,347	4,461	7,108	753	28,244	6,499
1994	2,890	5,633	8,256	762	26,411	12,137
1995	3,082	5,485	7,771	959	25,347	4,803
1996	2,350	3,818	6,156	1,057	21,637	7,969
1997	2,525	4,436	6,618	1,853	35,647	3,855
1998	1,788	3,280	5,373	915	25,443	6,997

Year	Jacks			Mullets		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	9,830	2,839	3,066	1,735	3,088	1,778
1990	4,231	2,044	3,980	2,061	2,283	1,522
1991	7,478	5,185	5,239	5,036	4,883	796
1992	5,934	5,549	6,017	5,185	5,240	331
1993	8,423	5,783	6,659	2,389	3,947	239
1994	6,269	4,150	7,198	3,095	3,893	495
1995	4,838	3,270	5,513	2,058	4,074	587
1996	5,893	3,459	4,884	1,835	2,705	907
1997	8,091	4,846	7,009	2,410	2,792	393
1998	9,928	3,966	7,556	2,410	2,842	432

See footnotes at end of page.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Porgies			Puffers		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	12,934	17,113	10,448	352	611	856
1990	8,968	14,090	8,076	176	381	830
1991	14,608	23,440	14,998	302	830	2,066
1992	13,389	17,502	12,316	359	743	1,357
1993	11,373	15,738	10,585	167	338	986
1994	10,054	13,659	13,048	97	248	893
1995	10,705	14,376	11,999	130	250	685
1996	9,020	13,113	10,782	114	246	566
1997	8,337	12,804	14,256	151	280	748
1998	7,570	10,290	13,129	67	145	545

Year	Sculpins			Sea Basses		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	1	6	265	12,507	11,061	11,325
1990	1	5	118	7,743	6,927	12,428
1991	2	2	53	10,401	9,003	14,984
1992	7	9	45	9,759	6,629	12,587
1993	278	245	858	14,290	10,715	13,854
1994	188	87	289	11,788	7,921	14,502
1995	191	140	457	15,338	10,903	17,483
1996	297	163	383	12,688	8,748	13,088
1997	213	138	468	11,205	7,880	15,688
1998	312	130	318	8,276	3,532	11,538

Year	Searobins			Snappers		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	146	351	2,628	6,549	5,078	2,694
1990	188	329	4,980	4,712	3,388	3,089
1991	317	486	7,788	7,670	5,485	11,339
1992	205	261	4,507	7,431	4,207	7,445
1993	156	245	7,481	8,214	4,989	7,941
1994	48	125	4,582	7,227	4,083	6,396
1995	21	100	4,694	6,158	3,556	6,490
1996	216	196	5,182	5,087	2,630	5,932
1997	242	238	5,523	7,484	3,442	8,058
1998	105	200	3,755	6,670	3,132	6,738

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Temperate Basses			Toadfishes		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	1,195	927	2,328	56	193	2,842
1990	2,915	1,601	3,850	7	32	2,633
1991	4,542	2,494	5,396	7	134	2,867
1992	4,683	1,977	5,538	19	152	1,631
1993	6,783	2,895	7,322	17	39	2,638
1994	7,888	2,827	10,490	28	61	1,720
1995	12,082	2,222	12,129	1	29	1,603
1996	15,876	3,744	15,287	1	14	1,036
1997	17,597	4,300	20,104	0	33	1,110
1998	13,995	3,294	18,438	2	10	895

Year	Triggerfishes/Filefishes			Tunas And Mackerels		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	1,832	1,109	447	41,444	7,689	2,063
1990	2,365	1,084	259	31,457	8,397	3,264
1991	2,428	1,000	427	33,097	10,784	2,949
1992	1,654	796	307	24,513	7,067	3,027
1993	1,547	767	232	31,259	8,604	5,487
1994	1,414	740	179	36,279	12,040	5,507
1995	1,257	703	194	37,142	9,234	5,720
1996	851	470	265	34,930	9,302	6,433
1997	1,076	506	227	40,880	11,432	6,574
1998	689	349	219	29,496	7,054	3,989

Year	Wrasses			California Scorpionfish (1)		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1989	6,736	3,161	3,403	-	-	-
1990	5,424	2,837	3,740	-	-	-
1991	8,696	3,518	4,610	-	-	-
1992	8,237	3,088	3,313	-	-	-
1993	6,536	2,880	3,532	166	148	72
1994	4,148	1,760	2,484	258	242	126
1995	5,153	2,053	3,392	224	212	139
1996	3,620	1,317	1,797	339	342	234
1997	2,582	926	1,817	206	243	132
1998	1,706	557	2,023	185	160	66

See footnotes at end of table.

U.S. RECREATIONAL HARVEST (A+B1) AND TOTAL LIVE RELEASES (B2), BY SPECIES GROUP, 1989-1998

Year	Croakers (1)			Greenlings (1)		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	582	1,216	1,146	1,814	497	175
1994	446	739	521	1,016	294	109
1995	695	1,132	674	962	252	144
1996	919	1,544	864	1,370	408	285
1997	557	774	711	1,062	299	244
1998	426	611	355	1,408	270	298

Year	Pacific Barracuda (1)			Rockfishes (1)		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	1,687	428	822	6,088	4,900	1,447
1994	2,015	526	1,239	4,809	3,798	698
1995	2,490	563	816	4,188	2,917	665
1996	1,011	234	350	4,810	3,741	806
1997	1,699	374	475	3,796	2,987	680
1998	2,057	450	752	5,592	4,135	734

Year	Sea Chubs (1)			Silversides (1)		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	87	129	60	439	1,078	152
1994	106	108	42	138	323	97
1995	225	217	31	317	800	171
1996	78	72	18	297	658	120
1997	66	58	12	169	492	243
1998	87	108	47	153	395	157

Year	Smelts (1)			Surfperches[1]		
	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)	Pounds harvested (thousand)	Number Harvested (thousands)	Number Released (thousands)
1993	159	1,629	31	755	1,362	608
1994	91	1,208	0	443	820	363
1995	122	1,416	0	709	1,181	649
1996	474	4,351	4	949	1,466	687
1997	120	1,617	9	640	1,180	755
1998	357	4,825	9	1,006	1,436	489

(1) The 1989 Pacific data were estimated without weighting county populations. The MRFSS was not conducted on the Pacific Coast from 1990 to 1992.

U.S. MARINE RECREATIONAL FISHERIES

U.S. RECREATIONAL FINFISH HARVEST (A+B1) AND RELEASED (B2), BY STATE, 1997 and 1998

State	1997		
	Pounds Harvested (thousands)	Number Harvested (thousands)	Number Released (thousands)
Maine	1,516	1,471	1,793
New Hampshire	1,479	598	568
Massachusetts	9,865	4,094	8,090
Rhode Island	3,225	1,745	2,260
Connecticut	3,228	1,487	2,301
New York	12,476	4,147	6,554
New Jersey	19,921	12,243	18,348
Delaware	2,751	1,926	3,605
Maryland	8,238	6,084	15,274
Virginia	16,835	15,998	18,979
North Carolina	19,703	7,421	10,564
South Carolina	4,492	3,350	5,272
Georgia	1,339	1,016	336
Florida	69,413	69,304	71,661
Alabama	5,784	2,630	2,367
Mississippi	4,479	2,444	2,457
Louisiana	23,385	12,871	18,101
Washington	4,322	2,637	2,649
Oregon	3,332	1,516	513
California	18,346	10,602	10,903
Grand Total	**234,129**	**163,584**	**202,595**

State	1998		
	Pounds Harvested (thousands)	Number Harvested (thousands)	Number Released (thousands)
Maine	701	662	945
New Hampshire	577	392	504
Massachusetts	9,226	2,748	10,034
Rhode Island	3,550	1,481	2,000
Connecticut	3,353	1,479	3,227
New York	8,421	3,652	5,411
New Jersey	13,511	5,613	15,694
Delaware	2,443	1,611	3,901
Maryland	8,217	6,357	14,342
Virginia	13,902	11,910	15,130
North Carolina	14,972	6,998	9,981
South Carolina	3,287	2,434	4,267
Georgia	1,005	843	732
Florida	54,738	55,855	63,089
Alabama	4,790	3,404	2,183
Mississippi	2,533	1,747	1,886
Louisiana	17,488	9,453	13,833
Washington	5,121	5,220	1,844
Oregon	3,775	1,712	530
California	23,021	11,950	7,203
Grand Total	**194,631**	**135,521**	**176,736**

U.S. RECREATIONAL NUMBERS OF ANGLERS AND TRIPS BY STATES, 1997 AND 1998

State	1997			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	Numbers in thousands			
Maine	130	173	20	854
New Hampshire	67	59	8	338
Massachusetts	330	412	96	4,138
Rhode Island	178	97	(1)	1,163
Connecticut	70	257	(1)	1,132
New York	50	453	17	4,258
New Jersey	384	468	21	5,470
Delaware	137	86	(1)	884
Maryland	263	426	29	2,912
Virginia	286	381	66	3,704
North Carolina	842	323	163	4,789
South Carolina	308	150	71	1,584
Georgia	16	46	48	568
Florida	2,149	2,300	(1)	24,034
Alabama	98	107	64	1,000
Mississippi	90	104	32	985
Louisiana	95	464	48	3,140
Washington	25	321	13	1,455
Oregon	53	180	14	593
California	199	1,203	83	5,138
Grand Total	**5,770**	**8,010**	**793**	**68,139**

State	1998			
	Out-of-State Anglers	In-State Anglers		Number of Angler Trips
		From Coastal Counties	From Non-Coastal Counties	
	Numbers in thousands			
Maine	114	94	10	669
New Hampshire	57	55	6	272
Massachusetts	226	265	50	3,422
Rhode Island	186	77	(1)	1,093
Connecticut	73	299	(1)	1,293
New York	42	342	4	3,409
New Jersey	353	260	22	4,257
Delaware	186	67	(1)	910
Maryland	304	375	20	2,807
Virginia	289	256	23	2,932
North Carolina	611	279	118	4,289
South Carolina	402	130	51	1,659
Georgia	18	117	10	558
Florida	2,384	2,263	(1)	21,314
Alabama	98	70	27	927
Mississippi	66	55	9	801
Louisiana	106	440	27	2,629
Washington	42	326	21	1,463
Oregon	51	168	13	649
California	198	1,098	65	4,905
Grand Total	**5,806**	**7,036**	**476**	**60,258**

(1) Less than 1,000 anglers.

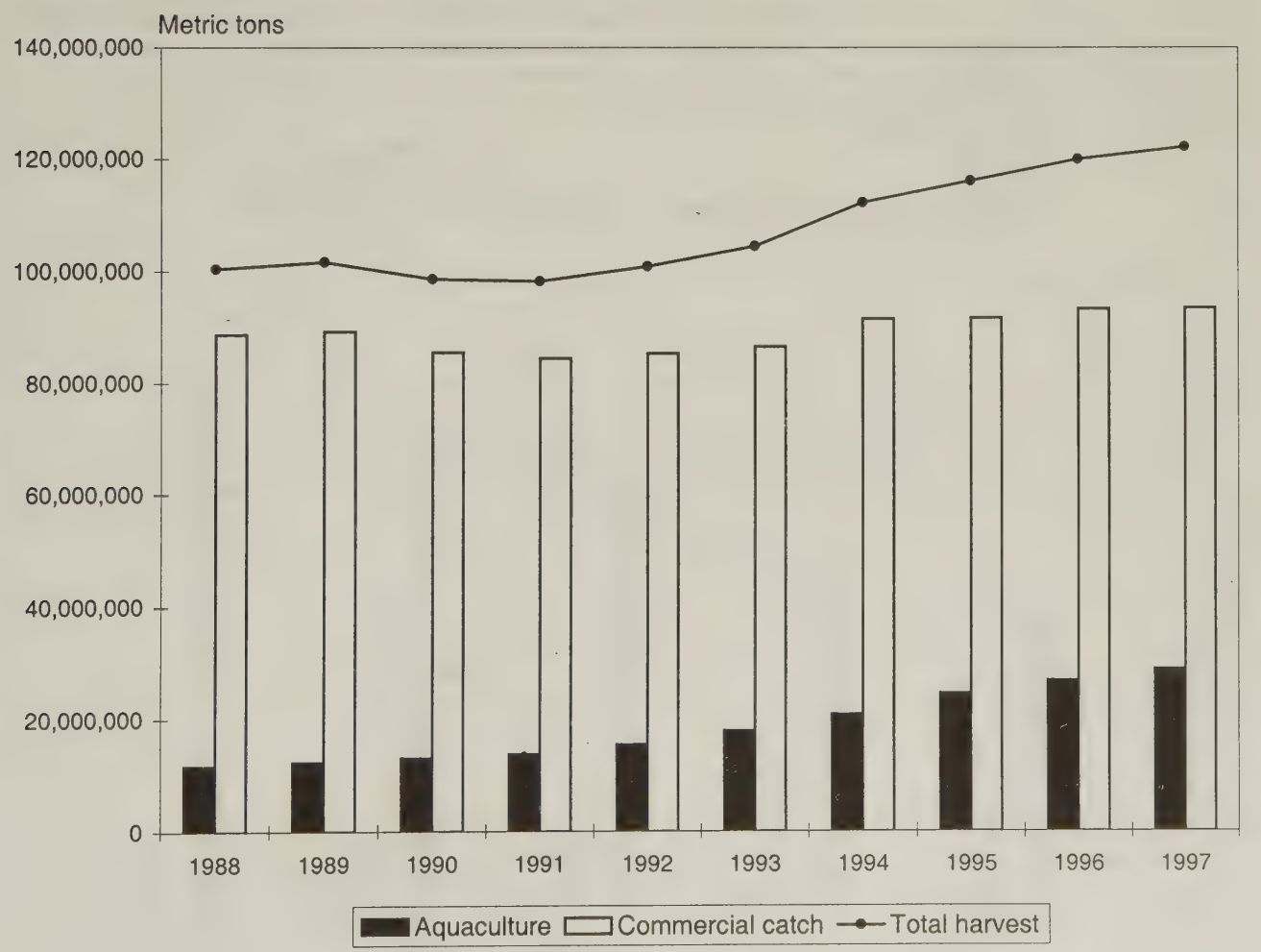
WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1988-97

Year	World aquaculture			World commercial catch			Grand Total
	Inland	Marine	Total	Inland	Marine	Total	
	Metric tons Live weight			Metric tons Live weight			
1988	7,170,112	4,530,118	11,700,230	6,203,259	82,459,710	88,662,969	100,363,199
1989	7,653,595	4,678,589	12,332,184	6,232,676	83,022,499	89,255,175	101,587,359
1990	8,155,436	4,928,706	13,084,142	6,433,330	79,029,806	85,463,136	98,547,278
1991	8,394,514	5,336,867	13,731,381	6,204,019	78,192,191	84,396,210	98,127,591
1992	9,355,548	6,121,802	15,477,350	6,138,491	79,124,488	85,262,979	100,740,329
1993	10,559,393	7,328,865	17,888,258	6,527,341	79,940,673	86,468,014	104,356,272
1994	12,135,089	8,655,759	20,790,848	6,714,557	84,683,302	91,397,859	112,188,707
1995	14,047,774	10,436,358	24,484,132	7,255,131	84,302,371	91,557,502	116,041,634
1996	15,924,746	10,840,129	26,764,875	7,459,733	85,717,592	93,177,325	119,942,200
1997	17,618,773	11,189,641	28,808,414	7,739,212	85,589,940	93,329,152	122,137,566

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

World Aquaculture and Commercial Catches

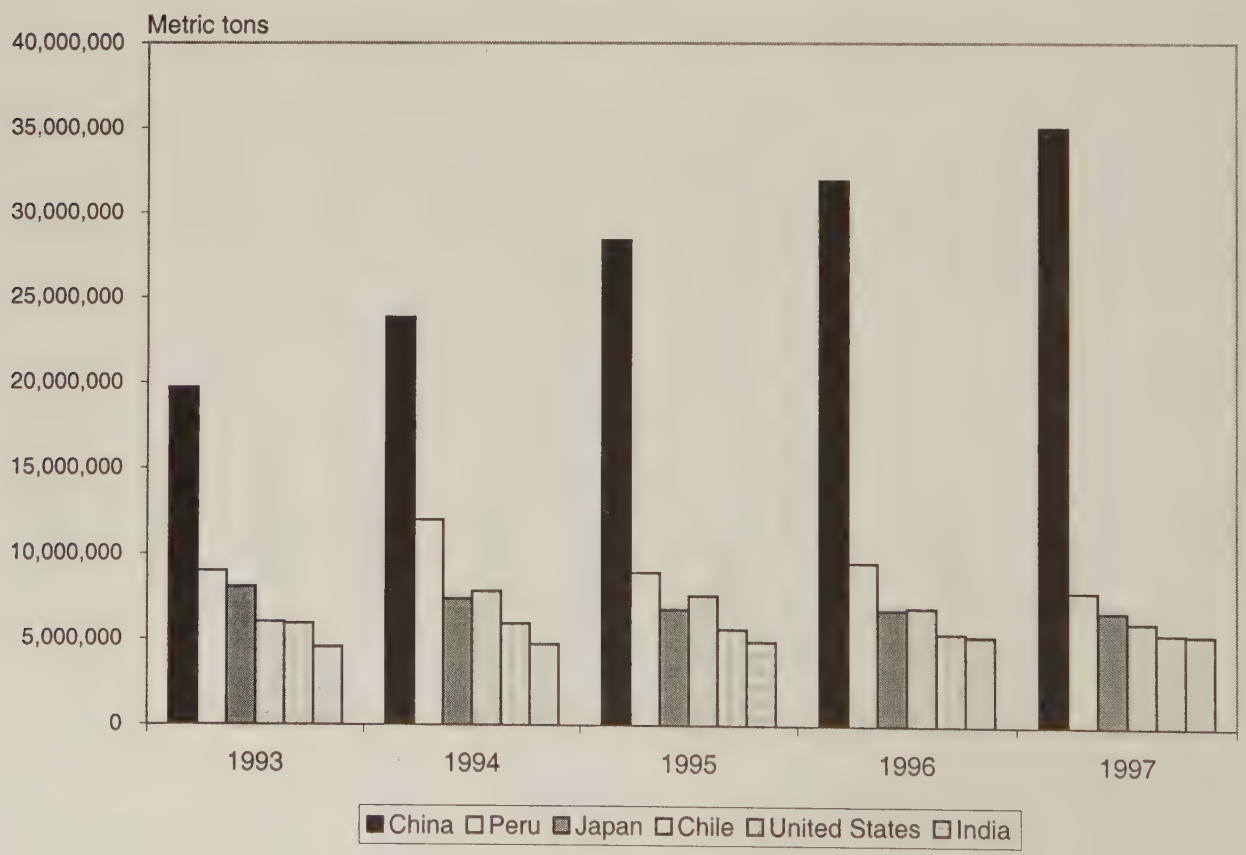


WORLD AQUACULTURE AND COMMERCIAL CATCHES BY COUNTRY OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

Country	1993	1994	1995	1996	1997
	Metric tons Live-weight				
China	19,708,195	23,833,631	28,418,359	31,936,876	35,037,967
Peru	9,009,639	12,005,120	8,943,111	9,521,960	7,877,252
Japan	8,080,820	7,398,335	6,787,414	6,765,484	6,688,833
Chile	6,036,007	7,838,538	7,590,985	6,908,896	6,083,913
United States	5,940,634	5,926,130	5,637,977	5,394,814	5,448,385
India	4,545,717	4,737,765	4,905,921	5,257,546	5,378,004
Russian Federation	4,461,381	3,780,537	4,373,827	4,729,565	4,715,024
Indonesia	3,685,439	3,913,151	4,139,057	4,290,711	4,403,810
Thailand	3,385,003	3,522,056	3,572,772	3,514,830	3,488,104
Norway	2,588,261	2,570,220	2,802,714	2,960,106	3,222,970
South Korea	2,649,368	2,700,676	2,688,070	2,771,759	2,596,474
Iceland	1,718,498	1,560,184	1,616,033	2,063,855	2,209,607
Philippines	2,226,395	2,232,919	2,222,031	2,133,035	2,136,249
Denmark	1,657,520	1,916,227	2,043,763	1,722,941	1,865,760
Viet Nam	1,061,618	1,177,554	1,394,176	1,431,000	1,546,000
Mexico	1,131,000	1,223,242	1,355,049	1,495,423	1,528,520
Argentina	931,758	949,520	1,148,842	1,250,050	1,352,400
Bangladesh	1,047,170	1,090,610	1,172,868	1,264,435	1,342,730
Spain	1,221,009	1,336,458	1,391,142	1,332,220	1,341,311
Taiwan	1,410,887	1,248,895	1,288,428	1,229,886	1,295,578
All others	21,859,953	21,226,939	22,549,095	21,966,808	22,578,675
Total	**104,356,272**	**112,188,707**	**116,041,634**	**119,942,200**	**122,137,566**

Note: Data for 1993-1996 are revised. For the United States the weight of clam, oyster, scallop, and other mollusk includes the shell weight. This weight is not included in U.S. landings shown elsewhere.
Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO)

Aquaculture and Commercial Catch by Leading Countries

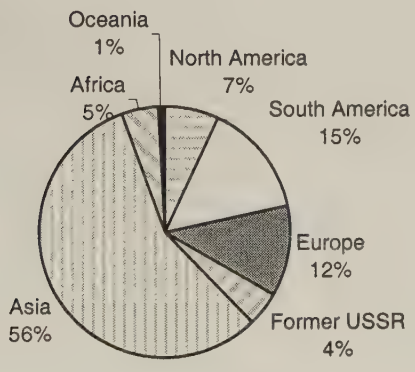


WORLD AQUACULTURE AND COMMERCIAL CATCHES BY CONTINENT OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

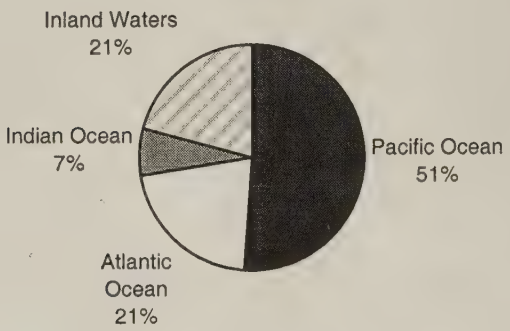
Continent	1993	1994	1995	1996	1997
	Metric tons Live-weight				
North America	8,802,803	8,791,411	8,523,101	8,423,618	8,612,654
South America	17,848,837	22,695,455	19,959,415	20,174,373	17,791,857
Europe	12,631,635	12,909,783	13,623,915	13,574,587	14,153,084
Former USSR	5,404,485	4,528,700	5,217,967	5,571,641	5,453,659
Asia	53,370,345	56,980,287	61,861,299	65,745,237	69,141,341
Africa	5,235,216	5,223,162	5,667,228	5,458,072	5,822,293
Oceania	888,340	895,114	1,041,996	908,819	1,081,176
Other	174,611	164,795	146,713	85,853	81,502
Total	**104,356,272**	**112,188,707**	**116,041,634**	**119,942,200**	**122,137,566**

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO)

1997 Aquaculture and Catches by Continent



1997 Aquaculture and Catches by Area



WORLD AQUACULTURE AND COMMERCIAL CATCHES BY MAJOR AREA OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

Area	1993	1994	1995	1996	1997
	Metric tons Live-weight				
Marine Areas:					
Pacific Ocean	55,690,886	61,906,258	61,916,808	63,561,996	62,517,947
Atlantic Ocean	23,687,033	23,674,586	24,776,732	24,763,816	25,903,338
Indian Ocean	7,891,619	7,758,217	8,045,189	8,231,909	8,358,296
Total	**87,269,538**	**93,339,061**	**94,738,729**	**96,557,721**	**96,779,581**
Inland waters:					
North America	540,231	523,857	531,174	554,414	598,325
South America	374,903	403,252	442,968	445,167	484,189
Europe	498,342	509,399	528,859	513,225	518,906
Former USSR	536,387	471,328	416,846	413,918	400,739
Asia	13,210,700	15,077,097	17,321,437	19,430,459	21,267,314
Africa	1,902,919	1,843,305	2,038,993	2,004,993	2,064,921
Oceania	23,252	21,408	22,628	22,303	23,591
Total	**17,086,734**	**18,849,646**	**21,302,905**	**23,384,479**	**25,357,985**
Grand total	**104,356,272**	**112,188,707**	**116,041,634**	**119,942,200**	**122,137,566**

Note: Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD AQUACULTURE AND COMMERCIAL CATCHES BY SPECIES OF FISH, CRUSTACEANS, AND MOLLUSKS, 1993-97

Species group	1993	1994	1995	1996	1997
	Metric tons Live weight				
Herrings, sardines, anchovies	22,009,188	25,909,716	22,020,462	22,307,567	21,581,548
Carps, barbels, cyprinids	8,306,260	9,688,176	11,309,561	12,724,064	13,975,121
Jacks, mullets, sauries	10,135,665	10,065,824	11,019,839	11,554,718	10,915,094
Cods, hakes, haddocks	9,926,851	9,726,772	10,723,094	10,740,032	10,234,871
Redfish, basses, congers	5,814,770	6,435,396	7,070,888	6,967,403	7,495,921
Mackerel, snoeks, cutlassfishes	4,016,794	4,531,937	4,715,607	5,151,347	5,262,654
Tunas, bonitos, billfishes	4,574,139	4,652,460	4,731,301	4,636,526	4,853,454
Salmons, trouts, smelts	1,706,930	1,807,711	2,095,863	2,104,856	2,145,694
Tilapias	1,081,383	1,125,540	1,273,762	1,366,788	1,529,190
Flatfish	1,108,737	996,560	933,160	953,266	1,031,949
Sharks, rays, chimaeras	741,321	756,892	752,766	804,002	789,862
Shads	656,146	634,389	685,224	717,299	739,157
River eels	202,917	206,174	201,884	250,228	251,179
Sturgeons, paddlefish	9,081	8,124	6,794	6,128	6,721
Other fishes	16,262,101	15,853,551	16,446,115	17,295,972	17,555,218
Shrimp	2,931,301	3,136,785	3,252,936	3,397,758	3,477,141
Crabs	1,012,100	1,209,815	1,236,475	1,316,198	1,348,847
Lobsters	211,285	224,331	232,493	223,551	249,866
Krill	88,777	83,962	118,714	101,708	84,608
Other crustaceans	1,173,512	1,316,537	1,514,173	1,699,415	1,979,712
Squids, cuttlefishes, octopus	2,707,136	2,772,744	2,878,146	3,058,004	3,320,730
Oysters	2,031,843	2,814,362	3,243,485	3,223,903	3,279,459
Clams, cockles, arkshells	2,450,791	2,612,478	2,717,704	2,684,037	2,780,364
Scallops	1,465,315	1,642,674	1,654,476	1,757,942	1,746,293
Mussels	1,312,134	1,264,257	1,363,938	1,318,701	1,363,197
Abalones, winkles, conchs	93,810	102,488	104,660	113,355	109,670
Other mollusks	1,901,295	2,104,904	3,162,403	2,920,688	3,298,975
Sea urchins, other echinoderms	105,251	116,795	127,134	117,911	109,174
Miscellaneous	319,439	387,353	448,577	428,833	621,897
Total	**104,356,272**	**112,188,707**	**116,041,634**	**119,942,200**	**122,137,566**

Note:Data for 1993-1996 are revised. Data for marine mammals and aquatic plants are excluded.
Source:--Food and Agriculture Organization of the United Nations (FAO).

DISPOSITION OF WORLD AQUACULTURE AND COMMERCIAL CATCHES, 1993-97

Item	1993	1994	1995	1996	1997
	Percent of Total				
Marketed fresh	25.3	25.8	29.5	32.2	35.1
Frozen	24.8	23.6	23.3	22.8	22.2
Canned	12.2	11.1	10.9	10.3	9.2
Cured	9.8	9.8	10.0	9.6	10.0
Reduced to meal and oil (1)	26.1	27.9	24.7	23.5	22.0
Miscellaneous purposes	2	2	2	2	2
Total	**100**	**100**	**100**	**100**	**100**

Note: Data for 1993-1996 are revised.

(1) Only whole fish destined for the manufacture of oils and meals are included. Raw material for reduction derived from from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Note: Data for marine mammals and aquatic plants are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO)

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1993-97

Country	1993	1994	1995	1996	1997
	Thousand U.S. dollars				
IMPORTS:					
Japan	14,187,149	16,140,465	17,853,481	17,023,945	15,539,507
United States	6,290,233	7,043,431	7,141,428	7,080,411	8,138,840
Spain	2,629,799	2,638,737	3,105,684	3,134,893	3,085,424
France	2,556,151	2,796,719	3,221,298	3,194,133	3,062,051
Italy	2,131,181	2,257,462	2,281,316	2,590,985	2,571,868
Germany	1,884,301	2,316,449	2,478,817	2,542,957	2,362,914
United Kingdom	1,628,852	1,880,350	1,910,091	2,065,025	2,141,619
Hong Kong	1,376,856	1,647,106	1,831,511	1,928,143	2,096,894
Denmark	1,094,253	1,415,239	1,573,732	1,618,669	1,521,062
China	575,929	855,706	941,293	1,184,170	1,183,283
Canada	821,404	913,404	1,034,070	1,158,864	1,129,210
Netherlands	791,608	1,017,635	1,191,857	1,141,647	1,107,443
South Korea	537,346	718,451	824,817	1,054,095	1,017,949
Belgium	730,459	920,918	1,035,818	966,333	979,272
Portugal	627,713	669,888	763,245	782,858	749,602
Taiwan	544,243	560,799	589,723	612,945	659,817
Singapore	566,502	619,595	659,681	641,782	626,876
Sweden	371,756	448,661	546,076	587,169	596,486
Norway	310,352	322,087	490,383	535,642	562,133
Other Countries	4,910,471	5,939,203	6,588,606	7,926,838	7,105,736
Total	**44,566,558**	**51,122,305**	**56,062,927**	**57,771,504**	**56,237,986**
EXPORTS:					
Norway	2,302,346	2,718,132	3,122,662	3,415,696	3,399,229
China	1,542,429	2,320,125	2,835,021	2,856,986	2,937,281
United States	3,179,474	3,229,585	3,383,589	3,147,858	2,850,311
Denmark	2,150,665	2,359,034	2,459,629	2,698,976	2,648,911
Thailand	3,404,268	4,190,036	4,449,457	4,117,865	2,349,694
Canada	2,055,438	2,182,078	2,314,413	2,291,261	2,270,725
Chile	1,124,679	1,303,974	1,704,260	1,697,258	1,781,805
Taiwan	2,369,422	1,804,050	1,809,166	1,762,132	1,781,541
Indonesia	1,419,492	1,583,416	1,666,752	1,678,222	1,620,628
Spain	813,750	1,021,015	1,190,676	1,461,486	1,471,306
Netherlands	1,296,340	1,435,824	1,447,239	1,470,046	1,425,552
South Korea	1,335,238	1,411,052	1,564,878	1,509,458	1,376,465
Iceland	1,137,638	1,264,615	1,342,552	1,425,837	1,360,285
Russian Federation	1,471,446	1,720,459	1,635,145	1,686,162	1,355,995
Peru	685,004	979,502	869,727	1,120,391	1,342,182
United Kingdom	1,036,674	1,180,158	1,195,477	1,307,859	1,264,447
India	835,980	1,125,440	1,040,671	1,115,963	1,236,311
Ecuador	573,775	723,691	902,085	924,596	1,178,912
France	857,752	909,734	993,364	1,003,460	1,097,534
Other Countries	11,808,140	13,825,440	15,853,191	16,144,809	16,854,036
Total	**41,399,950**	**47,287,360**	**51,779,954**	**52,836,321**	**51,603,150**

Note: Data for 1993-1996 are revised. Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value, but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products are preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO)

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1998 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 438.7 million pounds--29.0 million pounds more than the 409.7 million pounds in 1997. These fillets and steaks were valued at $1.0 billion. Alaska pollock fillets and blocks led all species with 161.4 million pounds--37 percent of the total. Production of groundfish fillets and steaks (see Glossary Section-Groundfish) was 269.0 million pounds.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 243.4 million pounds valued at $287.9 million compared with the 1997 production of 264.7 million pounds valued at $349.6 million.

The total production of fish sticks amounted to 67.2 million pounds valued at $61.7 million. The total production of fish portions amounted to 176.1 million pounds valued at $226.2 million.

BREADED SHRIMP. The production of breaded shrimp in 1998 was 109.5 million pounds valued at $333.2 million, compared with the 1997 production of 117.5 million pounds valued at $334.9 million.

FROZEN FISHERY TRADE. In 1998, stocks of frozen fishery products in cold storage were at a low of 364.2 million pounds on May 31 and a high of 437.2 million pounds on November 30. Cold storage holdings of shrimp products were at a high of 57.5 million pounds on October 31 and a low of 39.7 million pounds on March 31. Holdings of saltwater fillets and steaks reached a high of 94.2 million pounds on November 30 and were at a low of 64.3 million pounds on February 28. Holdings of blocks and slabs were at a high of 66.7 million pounds on December 31 and a low of 28.6 million pounds on March 31. Surimi reached a high of 45.1 million pounds on June 30 and was at a low of 19.9 million pounds on January 31. Analog Products reached a high of 7.3 million pounds on September 30 and a low of 4.1 million pounds on December 31.

CANNED PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 1.5 billion pounds valued at $1.8 billion--a decrease of 34.1 million pounds, but an increase of $172.5 million compared with the 1997 pack. The 1998 pack included 986.6 million pounds valued at $1.4 billion for human consumption and 544.3 million pounds valued at $349.8 million for bait and animal food.

CANNED SALMON. The 1998 U.S. pack of salmon was 162.5 million pounds valued at $273.5 million, compared with 162.1 million pounds valued at $252.8 million packed in 1997.

CANNED SARDINES. The pack of Maine sardines (small herring) was 11.8 million pounds valued at $19.5 million, a decrease of 4.1 million pounds and $9.5 million compared with 1997. There were 3.7 million pounds of herring valued at $6.6 million packed in 1998 — a decrease of 2.2 million pounds and $4.6 million than the 1997 pack.

CANNED TUNA. The U.S. pack of tuna was 680.9 million pounds valued at $983.0 million--an increase of 53.8 million pounds in quantity and $64.3 million in value compared with the 1997 pack. The pack of albacore tuna was 196.8 million pounds comprising 30 percent of the tuna pack in 1998. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 484.1 million pounds.

CANNED CLAMS. The 1998 U.S. pack of clams (whole, minced, chowder, juice, and specialties) was 113.4 million pounds valued at $104.9 million. The pack of whole and minced clams was 36.6 million pounds and accounted for 32 percent of the total clam pack. Clam chowder and clam juice was 67.1 million pounds and made up the majority of the pack.

OTHER CANNED ITEMS. The pack of pet food was 544.3 million pounds valued at $349.8 million--a decrease of 68.0 million pounds compared with the 1997 pack.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $229.4 million--a decrease of $118.0 million compared with the 1997 value of $347.4 million.

FISH MEAL. The domestic production of fish and shellfish meal was 592.6 million pounds valued at $112.9 million--a decrease of 132.1 million pounds, and $61.1 million compared with 1997. Fish meal production was 573.9 million pounds valued at $111.7 million--a decrease of 132.7 million pounds and $61.0 million from the 1997 production. Shellfish meal production was 18.7 million pounds--an increase of 546,000 pounds from the 1997 level.

FISH OILS. The domestic production of fish oils was 223.1 million pounds valued at $55.7 million--a decrease of 60.2 million pounds, but an increase of $413,000 in value compared with 1997 production.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, and mussel shell buttons were valued at $60.8 million, compared with $118.1 million in 1997--a decrease of $57.3 million.

VALUE OF PROCESSED FISHERY PRODUCTS, 1997 AND 1998
(Processed from domestic catch and imported products)

Item	1997 (1)		1998	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen	6,016,739	74	5,224,437	71
Canned	1,361,437	17	1,415,965	19
Cured	142,843	2	132,257	2
Total edible	**7,521,019**	**93**	**6,772,659**	**92**
Industrial:				
Bait and animal food (canned)	231,756	3	349,765	5
Meal and oil	229,222	3	168,580	2
Other	118,128	1	60,800	1
Total industrial	579,106	**7**	579,145	**8**
Grand total	**8,100,125**	**100**	**7,351,804**	**100**

(1) Revised. May not add due to rounding.

Note:--Value is based on selling price at the plant.

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1989-98

Year	Fish sticks			Fish portions			Breaded shrimp		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1989	89,112	40,421	116,440	279,864	126,945	400,351	120,927	54,852	404,535
1990	65,209	29,579	74,866	242,776	110,122	352,589	110,760	50,240	353,265
1991	63,286	28,706	77,877	204,697	92,850	313,400	116,335	52,769	335,880
1992	58,295	26,442	56,020	194,307	88,137	296,214	122,266	55,459	350,497
1993	67,959	30,826	67,975	206,165	93,516	313,195	111,489	50,571	316,722
1994	58,789	26,667	51,429	196,289	89,036	268,353	113,461	51,466	304,931
1995	74,066	33,596	73,478	251,217	113,951	356,518	100,522	45,596	299,355
1996	65,244	29,594	55,802	213,962	97,053	306,501	108,486	49,209	341,770
1997	69,167	31,374	64,298	195,554	88,703	285,348	117,471	53,284	334,939
1998	67,242	30,501	61,707	176,114	79,885	226,153	109,484	49,662	333,250

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1997 AND 1998

Species	1997 (1)			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Fillets:						
Amberjack	521	236	2,044	411	186	1,520
Anglerfish	7,052	3,199	17,683	5,614	2,546	15,209
Bluefish	141	64	301	151	68	335
Cod	79,332	35,985	179,894	67,229	30,495	162,297
Cusk	117	53	350	97	44	328
Dolphin	5,149	2,336	20,602	4,516	2,048	20,253
Drum	291	132	1,002	133	60	2,246
Flounders	26,889	12,197	78,699	23,796	10,794	70,804
Groupers	2,856	1,295	17,573	3,140	1,424	16,986
Haddock	6,802	3,085	24,182	5,677	2,575	21,852
Hake	18,838	8,545	16,930	28,609	12,977	22,085
Halibut	4,385	1,989	21,126	4,867	2,208	20,753
Lingcod	770	349	1,771	483	219	3,759
Marlin	537	244	1,686	487	221	1,310
Ocean perch:						
Atlantic	688	312	2,137	616	279	1,918
Pacific	1,442	654	2,830	1,781	808	3,559
Pollock:						
Atlantic	1,125	510	2,460	3,596	1,631	7,148
Alaska	112,059	50,830	128,632	161,399	73,210	189,745
Rockfishes	16,818	7,629	33,284	15,942	7,231	32,378
Sablefish	1,489	675	3,459	426	193	1,517
Salmon	18,729	8,495	68,003	28,178	12,781	85,584
Sea bass	756	343	4,441	655	297	3,741
Sea trout	211	96	896	222	101	3,952
Shark	2,049	929	6,000	1,823	827	5,120
Snapper	2,666	1,209	14,074	2,932	1,330	18,730
Swordfish	9,196	4,171	51,044	9,992	4,532	53,156
Tilapia	1,358	616	3,983	1,519	689	4,329
Tuna	11,372	5,158	71,946	11,751	5,330	77,076
Wahoo	262	119	1,249	260	118	1,348
Whitefish	965	438	2,768	980	445	2,549
Wolffish	58	26	174	86	39	236
Unclassified	19,899	9,026	63,313	16,799	7,620	55,930
Total	**354,822**	**160,946**	**844,536**	**404,167**	**183,329**	**907,753**
Steaks:						
Halibut	5,539	2,512	22,194	6,464	2,932	23,989
Salmon	1,640	744	3,481	1,197	543	2,828
Shark	117	53	259	27	12	78
Swordfish	3,467	1,573	15,332	4,058	1,841	16,390
Tuna	5,100	2,313	16,961	4,615	2,093	15,917
Unclassified	38,967	17,675	57,985	18,216	8,263	34,831
Total	**54,830**	**24,871**	**116,212**	**34,577**	**15,684**	**94,033**
Grand total	**409,652**	**185,817**	**960,748**	**438,744**	**199,013**	**1,001,786**

(1) Revised.

Note:--Some fillet products were further processed into frozen blocks.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1997 AND 1998

Species	Pounds per case	1997 Standard cases	1997 Thousand pound	1997 Thousand dollars	1998 Standard cases	1998 Thousand pound	1998 Thousand dollars
For human consumption:							
Fish:							
Herring	23.4	250,855	5,870	11,172	158,291	3,704	6,612
Salmon:							
Chinook	44.25	678	30	174	362	16	103
Chum	44.25	175,864	7,782	7,039	212,271	9,393	8,711
Pink	44.25	2,604,678	115,257	140,999	2,672,136	118,242	153,008
Coho	44.25	59,367	2,627	6,809	36,000	1,593	3,288
Sockeye	44.25	690,169	30,540	97,790	667,887	29,554	108,420
Total salmon		**3,530,757**	**162,106**	**252,811**	**3,588,655**	**162,502**	**273,530**
Specialties	48	8,750	420	4,105	13,229	635	4,770
Sardines, Maine	23.4	682,735	15,976	29,027	506,068	11,842	19,488
Tuna: (2)							
Albacore:							
Solid	18	8,647,722	155,659	336,415	9,065,944	163,187	330,348
Chunk	18	1,646,333	29,634	58,177	1,867,000	33,606	60,604
Total albacore		**10,294,056**	**185,293**	**394,592**	**10,932,944**	**196,793**	**390,952**
Lightmeat:							
Solid	18	408,833	7,359	11,233	502,444	9,044	13,952
Chunk	18	24,132,222	434,380	512,905	26,389,778	475,016	578,108
Total lightmeat		**24,541,056**	**441,739**	**524,138**	**26,892,222**	**484,060**	**592,060**
Total tuna		**34,835,111**	**627,032**	**918,730**	**37,825,167**	**680,853**	**983,012**
Specialties	48	438	21	210	542	26	179
Other	48	373,896	17,947	18,694	305,813	14,679	17,302
Total fish	--	**39,682,541**	**817,632**	**1,234,749**	**42,397,764**	**870,537**	**1,304,893**
Shellfish:							
Clam and clam products: (3)							
Whole and minced	15	2,911,800	43,677	62,698	2,442,533	36,638	54,205
Chowder and juice	30	2,330,433	69,913	43,175	2,235,733	67,072	41,420
Specialties	48	235,125	11,286	8,703	201,250	9,660	9,275
Total clams	--	**5,477,358**	**124,876**	**114,576**	**4,879,517**	**113,370**	**104,900**
Crabs, natural	20	4,256	83	446	4,000	78	437
Lobster meat and specialties	48	7,417	356	439	9,188	441	525
Oyster, specialties	48	604	29	111	667	32	81
Shrimp, natural (4)	6.75	173,037	1,168	4,557	28,741	194	1,300
Other	48	179,396	8,611	6,559	41,375	1,986	3,829
Total shellfish	--	**5,842,068**	**135,123**	**126,688**	**4,963,487**	**116,101**	**111,072**
Total for human consumption	--	**45,524,610**	**952,755**	**1,361,437**	**47,361,251**	**986,638**	**1,415,965**
For bait and animal food	48	12,756,667	612,320	231,756	11,340,125	544,326	349,765
Grand total	--	**58,281,276**	**1,565,075**	**1,593,193**	**58,701,376**	**1,530,964**	**1,765,730**

(1) Revised.

(2) Flakes included with chunk.

(3) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

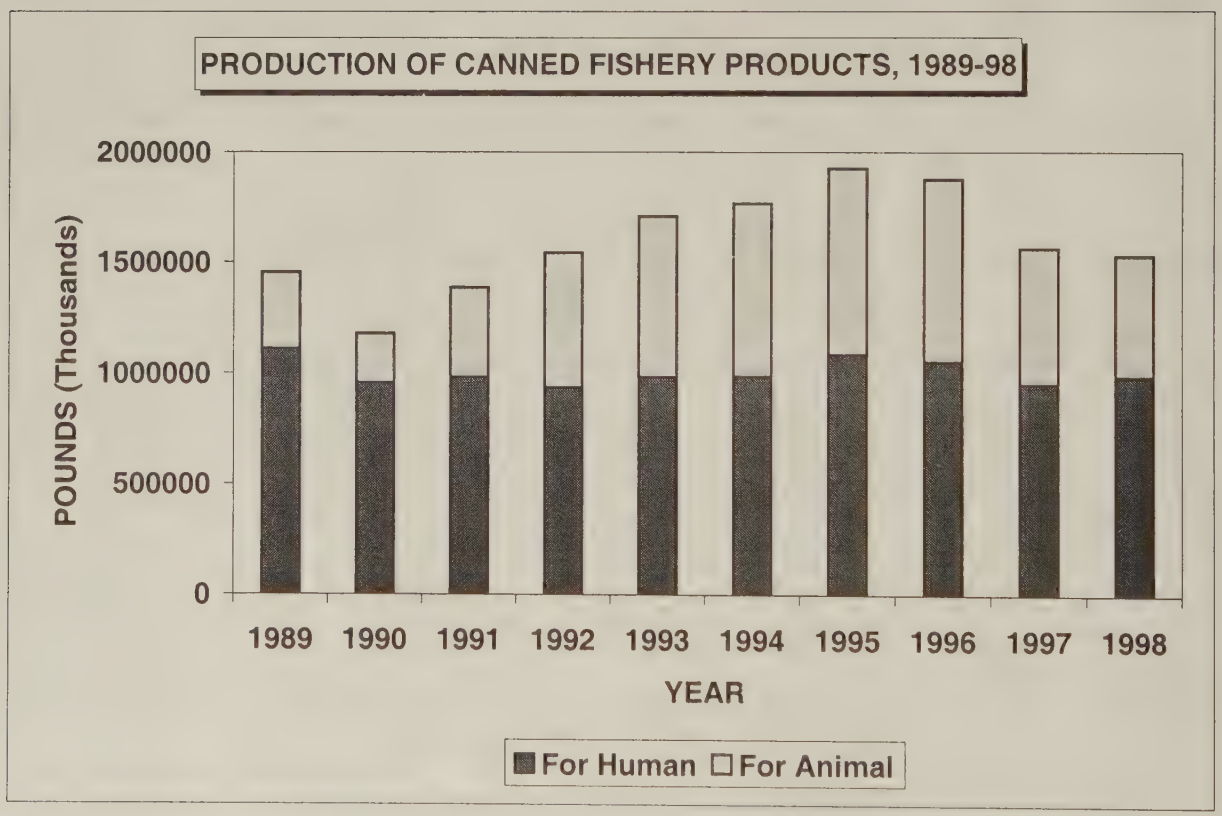
(4) Drained weight.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1989-98

Year	For human consumption			For animal food and bait			Total		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
1989	1,109,788	503,397	1,753,536	345,464	156,701	238,343	1,455,252	660,098	1,991,879
1990	956,962	434,075	1,414,846	221,320	100,390	146,947	1,178,282	534,465	1,561,793
1991	981,275	445,103	1,439,362	404,440	183,453	204,917	1,385,715	628,556	1,644,279
1992	936,117	424,620	1,330,173	607,678	275,641	247,261	1,543,795	700,261	1,577,434
1993	983,225	445,988	1,375,377	725,822	329,231	312,597	1,709,047	775,219	1,687,974
1994	985,675	447,099	1,470,234	782,272	354,836	325,264	1,767,947	801,935	1,795,498
1995	1,084,866	492,092	1,544,208	842,351	382,088	342,842	1,927,217	874,180	1,887,050
1996	1,052,909	477,596	1,428,937	824,094	373,807	370,945	1,877,003	851,403	1,799,882
1997	952,755	432,167	1,361,437	612,320	277,747	231,756	1,565,075	709,913	1,593,193
1998	986,638	447,536	1,415,965	544,326	246,905	349,765	1,530,964	694,441	1,765,730



INDUSTRIAL PRODUCTS

PRODUCTION OF MEAL AND OIL, 1997 AND 1998

Product	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Dried scrap and meal:						
Fish	706,544	320,486	172,673	573,882	260,311	111,710
Shellfish	18,124	8,221	1,263	18,670	8,469	1,171
Total, scrap and meal	**724,668**	**328,707**	**173,936**	**592,552**	**268,780**	**112,881**
Body oil, total	**283,379**	**128,540**	**55,287**	**223,149**	**101,220**	**55,700**

Note:--To convert pounds of oil to gallons divide by 7.75. The above data includes production in American Samoa and Puerto Rico.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1989-98

Year	Scrap and meal		Marine animal oil		Meal, and oil	Other industrial products	Grand total
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand dollars		
1989	618,382	280,496	225,478	102,276	156,321	49,756	206,077
1990	577,498	261,951	281,949	127,891	163,796	42,759	206,555
1991	612,716	277,926	267,345	121,267	170,495	37,707	208,202
1992	644,512	292,349	184,725	83,791	157,693	45,310	203,003
1993	750,744	340,535	293,452	133,109	182,170	43,689	225,859
1994	807,833	366,431	291,882	132,397	186,222	61,992	248,214
1995	667,240	302,658	241,941	109,744	172,279	74,264	246,543
1996	643,124	291,719	248,399	112,673	187,968	85,583	273,551
1997	724,668	328,707	283,379	128,540	229,222	118,128	347,350
1998	592,552	268,780	223,149	101,220	168,580	60,800	229,380

Note:--Does not include the value of imported items that may be further processed.

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998

Species	January	February	March	April	May	June
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	10,036	5,871	4,134	3,609	5,077	3,655
Flounder and sole	1,747	919	633	505	665	2,023
Haddock	1,337	515	461	384	277	776
Ocean perch	161	132	153	213	446	191
Pollock:						
Alaska (walleye)	21,295	19,070	11,006	12,087	14,979	12,168
Atlantic or other	6,010	8,141	6,539	8,777	8,558	10,876
Whiting:						
Silver (Atl) hake	600	646	495	420	615	496
Pacific hake	78	37	223	-	197	42
Minced	8,475	8,384	3,646	3,845	12,232	14,594
Unclassified (3)	2,448	2,526	1,302	1,592	2,225	3,111
Total, blocks and slabs	**52,187**	**46,241**	**28,592**	**31,432**	**45,271**	**47,932**
Fillets and steaks:						
Cod	21,215	20,518	21,628	23,914	21,412	18,830
Flounder and sole	4,264	4,423	6,080	11,738	12,037	12,371
Haddock	3,044	2,341	2,025	860	1,485	1,796
Halibut	1,581	1,407	1,308	1,307	1,340	1,352
Ocean perch	1,643	1,249	1,318	1,314	1,711	2,339
Pollock:						
Alaska (walleye)	7,515	7,820	8,176	7,839	6,105	5,899
Atlantic or other	2,916	1,388	1,528	1,709	1,759	1,751
Rockfish	311	102	194	88	139	257
Salmon	9,314	4,336	4,592	3,894	3,782	3,795
Whiting:						
Silver (Atl) hake	1,949	1,082	1,048	999	1,072	2,824
Pacific hake	2,228	1,606	1,160	817	1,180	5,215
Unclassified	23,020	18,076	22,062	19,474	13,288	11,680
Total, fillets and steaks	**79,000**	**64,348**	**71,119**	**73,953**	**65,310**	**68,109**
Round, dressed, etc.:						
Halibut (exc. California)	11,267	9,162	6,850	6,548	5,920	6,324
Sablefish	1,050	796	574	375	535	1,147
Salmon:						
Chinook or king	2,848	2,434	1,329	1,527	1,102	1,014
Silver or coho	3,915	3,477	2,993	2,560	2,096	1,492
Chum or fall	22,657	19,361	15,982	12,575	8,919	6,539
Pink	5,906	4,104	2,553	1,881	1,364	1,113
Sockeye	3,488	2,545	1,435	479	280	875
Unclassified	3,348	2,971	7,432	2,061	1,533	1,899
Total, salmon	**42,162**	**34,892**	**31,724**	**21,083**	**15,294**	**12,932**
Whiting:						
Silver (Atl) hake	231	231	24	213	1,079	191
Pacific hake	463	234	150	138	60	6
Unclassified (exc bait)	62,643	31,255	24,844	30,347	25,309	26,687
Total, round, dressed, etc.	**117,816**	**76,570**	**64,166**	**58,704**	**48,197**	**47,287**

See footnotes at end of table.

(Continued)

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	July	August	September	October	November	December
Fish	Thousand pounds					
Saltwater:						
Blocks and slabs:						
Cod	4,541	5,865	4,867	5,626	5,882	6,773
Flounder and sole	1,005	1,697	2,501	3,798	3,611	3,269
Haddock	699	548	434	803	878	864
Ocean perch	221	154	347	731	861	976
Pollock:						
Alaska (walleye)	13,517	12,377	16,791	14,857	17,728	23,866
Atlantic or other	13,804	11,121	4,417	5,241	5,923	11,380
Whiting:						
Silver (Atlantic) hake	533	1,662	461	528	679	729
Pacific hake	385	122	169	257	380	134
Minced	14,539	12,636	11,272	12,214	12,997	16,084
Unclassified (3).	4,000	8,699	2,662	1,362	2,267	2,619
Total, blocks and slabs	**53,244**	**54,881**	**43,921**	**45,417**	**51,206**	**66,694**
Fillets and steaks:						
Cod	19,147	16,190	14,831	13,599	13,626	13,291
Flounder and sole	12,400	12,406	13,138	6,544	6,294	6,270
Haddock	1,568	604	1,209	1,010	1,107	1,469
Halibut	1,171	1,459	1,466	1,599	1,507	1,472
Ocean perch	4,297	4,393	4,585	4,255	4,131	4,656
Pollock:						
Alaska (walleye)	5,824	4,284	6,051	15,179	13,786	12,389
Atlantic or other	1,623	2,313	2,436	2,539	2,964	4,144
Rockfish	300	294	218	186	297	183
Salmon	3,949	3,325	3,256	3,633	3,142	2,810
Whiting:						
Silver (Atlantic) hake	3,881	4,561	4,476	3,955	30,447	4,125
Pacific hake	3,002	3,649	3,882	3,649	3,460	5,434
Unclassified	12,138	12,053	12,154	13,564	13,466	13,777
Total, fillets and steaks	**69,300**	**65,531**	**67,702**	**69,712**	**94,227**	**70,020**
Round, dressed, etc.:						
Halibut (exc. California)	7,949	9,634	10,608	9,354	8,890	6,935
Sablefish	1,022	1,125	1,262	1,274	1,353	1,097
Salmon:						
Chinook or king	2,612	2,531	2,849	2,479	2,121	1,803
Silver or coho	2,196	4,491	6,565	7,309	6,092	5,272
Chum or fall	17,609	36,764	45,742	46,740	45,037	36,691
Pink	1,219	8,716	11,431	10,484	9,809	9,274
Sockeye	908	2,111	2,145	1,474	1,135	793
Unclassified	1,717	2,695	2,808	2,736	2,548	2,790
Total, salmon	**26,261**	**57,308**	**71,540**	**71,222**	**66,742**	**56,623**
Whiting:						
Silver (Atlantic) hake	273	164	104	94	130	2,618
Pacific hake	16	1,939	1,844	1,781	1,707	1,677
Unclassified (exc bait)	25,294	30,117	33,998	32,878	32,920	31,321
Total, round, dressed, etc.	**60,815**	**100,287**	**119,356**	**116,603**	**111,742**	**100,271**

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	January	February	March	April	May	June
	Thousand pounds					
Fish						
Fish sticks and portions (2):	32,210	27,293	26,333	27,465	29,146	24,065
Analog products	4,629	4,887	4,255	4,567	4,443	4,522
Surimi: Pollock	19,448	24,811	33,267	31,184	29,536	43,351
Other	484	1,279	1,408	2,016	1,632	1,788
Total, saltwater	**305,774**	**245,429**	**229,140**	**229,321**	**223,535**	**237,054**
Freshwater:						
Fillets and steaks	249	230	89	147	140	140
Catfish	12,723	9,620	10,106	11,075	10,588	10,144
Rainbow trout	1,364	1,293	1,172	1,084	962	918
Unclassified (exc bait)	203	161	178	174	215	207
Total, freshwater	**14,539**	**11,304**	**11,545**	**12,480**	**11,905**	**11,409**
Bait & animal food	**11,079**	**13,357**	**15,084**	**9,898**	**8,498**	**7,230**
Shellfish						
Clams and clam meats	2,883	2,500	2,558	2,630	2,796	3,294
Crabs:						
Dungeness	2,772	2,595	2,043	1,894	1,875	1,343
King:						
Meat	76	70	142	158	160	143
Sections	9,478	10,508	10,968	10,382	9,355	10,295
Snow:						
Meat	894	948	1,127	1,296	1,444	893
Sections	3,443	13,860	24,552	38,754	31,861	32,244
Unclassified	1,991	8,469	14,406	15,899	14,327	11,139
Total, crab	**18,654**	**36,450**	**53,238**	**68,383**	**59,022**	**56,057**
Lobsters:						
Spiny (tails)	4,707	4,049	3,640	2,691	2,884	2,646
Unclassified (whole & meat)	1,779	2,542	1,247	988	933	740
Oyster meats	550	390	476	703	702	627
Scallop meats	3,385	3,363	2,651	2,891	3,279	3,522
Shrimp:						
Raw, headless	10,386	8,333	4,898	4,547	3,632	3,516
Breaded	6,660	6,520	6,298	7,441	6,152	6,779
Peeled	18,369	17,503	15,862	14,946	17,462	19,013
Unclassified	13,539	13,663	12,667	12,958	14,571	15,294
Total, shrimp	**48,954**	**46,019**	**39,725**	**39,892**	**41,817**	**44,602**
Squid	5,285	3,007	4,358	2,260	2,223	2,397
Unclassified shellfish	8,948	8,931	5,940	5,823	5,063	5,292
Total, shellfish	**95,145**	**107,251**	**113,833**	**126,261**	**118,719**	**119,177**
Total, fish and shellfish	**426,537**	**377,341**	**369,602**	**377,960**	**362,657**	**374,870**
Cured fish (all categories)	**446**	**483**	**1,342**	**1,834**	**1,551**	**1,535**
Grand total	**426,983**	**377,824**	**370,944**	**379,794**	**364,208**	**376,405**

See footnotes at end of table.

(Continued)

U.S. COLD STORAGE HOLDINGS

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1998 - Continued

Species	July	August	September	October	November	December
Fish	---------- Thousand pounds ----------					
Fish sticks and portions (2):	28,074	23,580	24,484	25,227	27,176	28,231
Analog products	4,130	4,443	7,272	5,567	5,363	4,145
Surimi: Pollock	31,652	24,883	24,339	29,846	28,983	21,599
Other	4,923	2,227	1,618	1,358	1,072	2,095
Total, saltwater	**252,138**	**275,832**	**288,692**	**293,730**	**319,769**	**293,055**
Freshwater						
Fillets and steaks:	237	136	145	139	208	174
Catfish	10,585	10,149	10,185	10,962	10,907	11,452
Rainbow trout	1,043	790	779	690	819	760
Unclassified (exc bait)	153	156	80	87	93	139
Total, freshwater	**12,018**	**11,231**	**11,189**	**11,878**	**12,027**	**12,525**
Bait & animal food	**6,722**	**6,973**	**7,441**	**6,647**	**6,883**	**6,249**
Shellfish						
Clams and clam meats	3,033	2,766	3,157	3,037	2,998	3,291
Crabs:						
Dungeness	1,678	1,290	1,179	1,456	1,173	1,789
King:						
Meat	180	172	437	135	157	165
Sections	9,257	7,360	5,893	6,246	8,220	8,725
Snow:						
Meat	1,251	872	1,160	1,543	1,454	1,442
Sections	27,695	21,358	18,649	13,321	8,767	6,962
Unclassified	10,534	4,678	7,017	5,364	4,986	3,481
Total, crab	**50,595**	**35,730**	**34,335**	**28,065**	**24,757**	**22,564**
Lobsters:						
Spiny (tails)	2,476	2,430	2,425	2,333	2,844	3,267
Unclassified (whole & meat)	1,035	761	681	700	800	1,113
Oyster meats	592	461	428	457	231	290
Scallop meats	3,028	2,389	2,253	2,491	2,563	3,474
Shrimp:						
Raw, headless	3,471	5,501	6,794	7,341	7,989	8,764
Breaded	8,392	6,856	7,202	7,039	7,317	6,954
Peeled	20,527	19,616	22,916	24,332	21,237	20,493
Unclassified	15,812	16,438	15,545	18,769	18,467	18,548
Total, shrimp	**48,202**	**48,411**	**52,457**	**57,481**	**55,010**	**54,759**
Squid	3,518	2,072	1,517	1,682	1,561	1,711
Unclassified shellfish	4,838	4,769	5,858	5,114	6,198	5,587
Total, shellfish	**117,317**	**99,789**	**103,111**	**101,360**	**96,962**	**96,056**
Total, fish and shellfish	**388,195**	**393,825**	**410,433**	**413,615**	**435,641**	**407,885**
Cured fish (all categories)	**1,752**	**2,051**	**2,582**	**1,861**	**1,557**	**1,110**
Grand total	**389,947**	**395,876**	**413,015**	**415,476**	**437,198**	**408,995**

(1) Unclassified may also include blocks and slabs made from species listed separately.
(2) Fish sticks and portions include all species that are either cook or uncooked.

NOTE:--Data includes imported fishery products. Data for these tables were collected from public and private warehouses where fishery products are normally stored for 30 days or more.

IMPORTS. U.S. imports of edible fishery products in 1998 were valued at a record $8.2 billion, $418.9 million more than in 1997. The quantity of edible imports was 3.6 billion pounds, 308.2 million pounds more than the quantity imported in 1997.

Edible imports consisted of 3.1 billion pounds of fresh and frozen products valued at $7.4 billion, 428.2 million pounds of canned products valued at $587.6 million, 72.2 million pounds of cured products valued at $140.6 million, 4.4 million pounds of caviar and roe products valued at $33.2 million, and 23.1 million pounds of other products valued at $55.9 million.

The quantity of shrimp imported in 1998 was 695.4 million pounds, 47.1 million pounds more than the quantity imported in 1997. Valued at $3.1 billion, shrimp imports accounted for 38 percent of the value of total edible imports. Imports of fresh and frozen tuna were 571.0 million pounds, 132.5 million pounds more than the 438.5 million pounds imported in 1997. Imports of canned tuna were 240.4 million pounds, 28.2 million pounds more than in 1997. Imports of fresh and frozen fillets and steaks amounted to 578.6 million pounds, an increase of 63.8 million pounds from 1997. Regular and minced block imports were 232.8 million pounds, a decrease of 1.1 million pounds from 1997.

Imports of nonedible fishery products were valued at $7.4 billion -- an increase of $685.4 million compared with 1997. The total value of edible and nonedible products was $15.6 billion in 1998, $1.1 billion more than in 1998 when $14.5 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products were 1.7 billion pounds valued at $2.3 million, a decrease of 329.9 million pounds and $445.1 million when compared with 1997. Fresh and frozen items were 1.4 billion pounds valued at $1.8 billion, a decrease of 331.6 million pounds, and $346.0 million compared with 1997. In terms of individual items, fresh and frozen exports consisted principally of 153.4 million pounds of salmon valued at $255.1 million, 255.3 million pounds of surimi valued at $284.4 million and 43.0 million pounds of lobsters valued at $187.8 million.

Canned items were 144.2 million pounds valued at $211.2 million. Salmon was the major canned item exported, with 77.4 million pounds valued at $143.3 million. Cured items were 15.5 million pounds valued at $23.2 million. Caviar and roe exports were 72.4 million pounds valued at $258.0 million.

Exports of nonedible products were valued at $6.4 billion compared with $6.6 billion in 1998. Exports of fish meal amounted to 210.7 million pounds valued at $68.4 million. The total value of edible and nonedible exports was $8.7 billion--a decrease of $648.2 million compared with 1997.

U.S. Trade in Edible Fishery Products, 1998

FOREIGN TRADE

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998

Item	1997			1998		
Edible fishery products:	Thousand	Metric	Thousand	Thousand	Metric	Thousand
Fresh and frozen:	pounds	tons	dollars	pounds	tons	dollars
Whole or eviscerated:						
Freshwater	76,224	34,575	72,031	84,161	38,175	73,450
Flatfish	36,993	16,780	70,861	38,364	17,402	70,119
Groundfish	63,700	28,894	52,363	58,922	26,727	53,054
Salmon	162,803	73,847	344,427	152,170	69,024	319,275
Tuna (1)	438,493	198,899	494,181	571,000	259,004	555,766
Other	253,280	114,887	330,870	260,478	118,152	320,773
Fillets and steaks:						
Freshwater	30,719	13,934	83,563	37,037	16,800	96,640
Flatfish	42,679	19,359	92,067	49,506	22,456	103,614
Groundfish	176,125	79,890	334,206	186,937	84,794	356,070
Other	265,282	120,331	551,753	305,081	138,384	636,439
Blocks and slabs	233,972	106,129	231,008	232,843	105,617	270,686
Surimi	22,553	10,230	10,879	7,749	3,515	5,330
Shrimp	644,702	292,435	2,942,635	692,017	313,897	3,101,790
Crabmeat	14,462	6,560	66,918	16,684	7,568	67,262
Lobster:						
American	40,798	18,506	238,881	42,542	19,297	245,578
Spiny	24,674	11,192	242,181	21,248	9,638	230,133
Scallops (meats)	60,146	27,282	237,078	52,445	23,789	218,250
Other fish and shellfish	273,933	124,255	626,023	310,004	140,617	631,687
Total, fresh and frozen	**2,861,538**	**1,297,985**	**7,021,925**	**3,119,192**	**1,414,856**	**7,355,916**
Canned:						
Anchovy	6,942	3,149	22,247	6,989	3,170	21,522
Herring	1,488	675	2,078	4,325	1,962	4,846
Mackerel	28,779	13,054	15,912	24,572	11,146	11,895
Salmon	1,228	557	4,793	1,323	600	4,990
Sardines	42,771	19,401	49,302	44,328	20,107	53,740
Tuna	212,171	96,240	249,963	240,409	109,049	288,970
Clams	9,855	4,470	10,807	11,186	5,074	10,559
Crabmeat	15,871	7,199	66,521	22,020	9,988	95,958
Lobsters	176	80	1,595	121	55	1,402
Oysters	9,934	4,506	24,795	13,600	6,169	25,629
Shrimp	3,620	1,642	10,954	3,406	1,545	10,622
Balls, cakes, and puddings	8,523	3,866	14,512	9,489	4,304	14,302
Other fish and shellfish	45,732	20,744	51,832	46,409	21,051	43,124
Total, canned	**387,090**	**175,583**	**525,311**	**428,177**	**194,220**	**587,559**
Cured:						
Dried	21,914	9,940	58,030	19,687	8,930	55,281
Pickled or salted	36,887	16,732	46,698	41,693	18,912	56,899
Smoked or kippered	10,234	4,642	26,875	10,836	4,915	28,381
Total, cured	**69,035**	**31,314**	**131,603**	**72,216**	**32,757**	**140,561**
Caviar and roe	4,286	1,944	31,169	4,358	1,977	33,215
Prepared meals	3,336	1,513	12,243	3,197	1,450	10,330
Other fish and shellfish	13,565	6,153	31,992	19,883	9,019	45,604
Total edible fishery products	**3,338,849**	**1,514,492**	**7,754,243**	**3,647,023**	**1,654,279**	**8,173,185**
Nonedible fishery products:						
Meal and scrap	142,049	64,433	36,484	125,404	56,883	33,574
Fish oils	25,622	11,622	23,388	24,213	10,983	19,604
Other	-	-	6,714,211	-	-	7,406,309
Total nonedible fishery products	**-**	**-**	**6,774,083**	**-**	**-**	**7,459,487**
Grand total	**-**	**-**	**14,528,326**	**-**	**-**	**15,632,672**

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, headed, etc.

Imports and Exports of Fishery Products, Annual Summary, 1998, Current Fishery Statistics No. 9802 provides additional information.

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

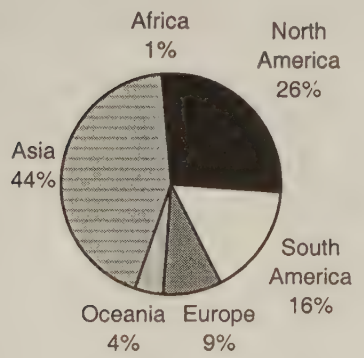
IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1989-98

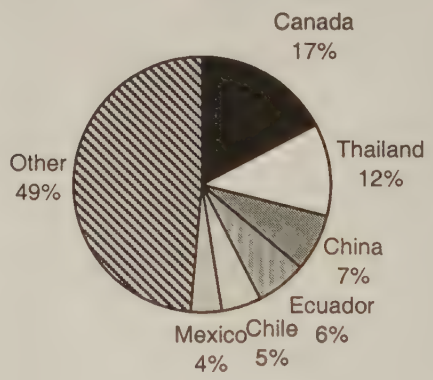
Year	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
1989	3,243,022	1,471,025	5,497,849	4,106,507	9,604,356
1990	2,884,596	1,308,444	5,233,167	3,814,513	9,047,680
1991	3,014,819	1,367,513	5,671,887	3,763,173	9,435,060
1992	2,893,954	1,312,689	5,705,876	4,165,386	9,871,262
1993	2,917,160	1,323,215	5,848,738	4,773,649	10,622,387
1994	3,034,841	1,376,595	6,645,132	5,341,740	11,986,872
1995	3,066,458	1,390,936	6,791,690	5,659,933	12,451,623
1996	3,169,787	1,437,806	6,729,614	6,330,741	13,060,355
1997	3,338,849	1,514,492	7,754,243	6,774,083	14,528,326
1998	3,647,023	1,654,279	8,173,185	7,459,487	15,632,672

Source:--U.S. Department of Commerce, Bureau of the Census.

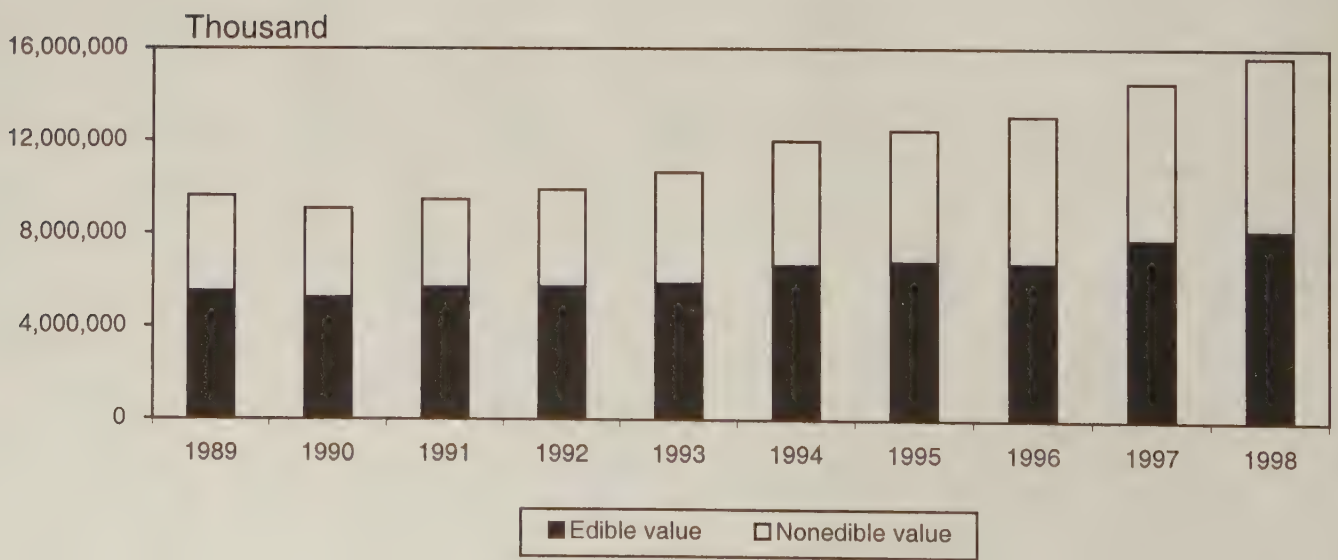
U.S. Imports from Major Areas by Volume



U.S. Imports from Major Exporters by Volume



U.S. FISHERY PRODUCT IMPORTS



IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1998

Continent and Country	Edible			Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars		
North America:					
Canada	627,932	284,828	1,405,485	834,062	2,239,547
Mexico	141,601	64,230	478,954	231,231	710,185
Dominican Republic	231	105	1,134	149,104	150,238
Panama	42,511	19,283	122,445	6,865	129,310
Honduras	31,867	14,455	107,467	15	107,482
Other	112,166	50,878	331,365	87,867	419,232
Total	**956,309**	**433,779**	**2,446,850**	**1,309,144**	**3,755,994**
South America:					
Ecuador	234,633	106,429	697,214	10,573	707,787
Chile	179,005	81,196	369,245	26,686	395,931
Peru	25,029	11,353	59,349	64,991	124,340
Brazil	17,751	8,052	61,560	51,482	113,042
Argentina	69,449	31,502	87,492	14,169	101,661
Other	70.459	31.960	163.023	56.048	219.071
Total	**596,327**	**270,492**	**1,437,883**	**223,949**	**1,661,832**
Europe:					
European Union:					
Italy	1,023	464	3,095	1,464,357	1,467,452
France	10,093	4,578	8,644	639,449	648,093
Germany	1,530	694	2,469	279,032	281,501
United Kingdom	12,555	5,695	27,325	175,442	202,767
Netherlands	7,857	3,564	24,772	78,134	102,906
Other	26,989	12,242	61,872	163,104	224,976
Total	**60,047**	**27,237**	**128,177**	**2,799,518**	**2,927,695**
Other:					
Russian Federation	111,998	50,802	253,794	2,460	256,254
Iceland	79,784	36,190	188,364	10,250	198,614
Turkey	730	331	1,848	165,735	167,583
Norway	53,843	24,423	118,391	20,300	138,691
Switzerland	126	57	73	119,780	119,853
Other	7,890	3,579	20,168	45,630	65,798
Total	**254,371**	**115,382**	**582,638**	**364,155**	**946,793**
Asia:					
Thailand	427,267	193,807	1,393,297	389,748	1,783,045
Japan	119,304	54,116	194,284	514,497	708,781
India	74,321	33,712	182,135	430,620	612,755
China	263,871	119,691	324,569	236,205	560,774
Hong Kong	6,651	3,017	10,206	463,333	473,539
Other	687,011	311,626	1,104,714	615,098	1,719,812
Total	**1,578,425**	**715,969**	**3,209,205**	**2,649,501**	**5,858,706**
Oceania:					
New Zealand	83,001	37,649	140,234	6,437	146,671
Australia	27,959	12,682	78,085	36,963	115,048
French Polynesia	1,058	480	1,949	27,023	28,972
Fiji	18,031	8,179	20,096	2,296	22,392
Western Samoa	9,504	4,311	10,325	78	10,403
Other	9,720	4,409	9,839	1,759	11,598
Total	**149,273**	**67,710**	**260,528**	**74,556**	**335,084**
Africa:					
South Africa	18,177	8,245	38,731	14,364	53,095
Namibia	11,239	5,098	30,764	120	30,884
Morocco	8,583	3,893	20,174	4,723	24,897
Zimbabwe	0	0	0	9,700	9,700
Tanzania	2,566	1,164	4,183	5,051	9,234
Other	11,706	5,310	14,052	4,706	18,758
Total	**52,271**	**23,710**	**107,904**	**38,664**	**146,568**
Grand total	**3,647,023**	**1,654,279**	**8,173,185**	**7,459,487**	**15,632,672**

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1997 AND 1998

Species and type	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Regular blocks and slabs:						
Cod	32,723	14,843	49,872	30,538	13,852	63,265
Flatfish	6,951	3,153	11,050	7,328	3,324	12,662
Haddock	14,650	6,645	21,378	9,517	4,317	20,133
Ocean perch	578	262	863	520	236	990
Pollock	133,528	60,568	101,772	124,470	56,459	113,989
Whiting	17,368	7,878	16,339	18,960	8,600	18,328
Other	9,630	4,368	12,069	14,337	6,503	19,513
Total	**215,427**	**97,717**	**213,343**	**205,669**	**93,291**	**248,880**
Minced blocks and slabs	18,545	8,412	17,665	27,174	12,326	21,806
Grand total	**233,972**	**106,129**	**231,008**	**232,843**	**105,617**	**270,686**

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Russian Federation	67,833	30,769	58,146	66,579	30,200	72,956
China	81,052	36,765	61,042	87,106	39,511	70,029
Norway	18,219	8,264	26,415	8,777	3,981	18,358
Iceland	9,806	4,448	14,917	9,259	4,200	18,251
Canada	13,774	6,248	16,587	11,984	5,436	17,970
Denmark	6,252	2,836	10,404	7,551	3,425	16,412
Argentina	10,487	4,757	8,827	14,544	6,597	14,247
Indonesia	1,213	550	1,974	3,913	1,775	8,321
St. Pierre & Miquelon	862	391	1,349	1,706	774	3,677
Other	24,473	11,101	31,347	21,424	9,718	30,465
Total	**233,972**	**106,129**	**231,008**	**232,843**	**105,617**	**270,686**

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1997 AND 1998 (1)

Species	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Cod	95,051	43,115	210,068	77,794	35,287	194,193
Haddock (2)	59,848	27,147	84,788	83,303	37,786	108,668
Ocean perch	21,226	9,628	39,350	25,840	11,721	53,209
Total	**176,125**	**79,890**	**334,206**	**186,937**	**84,794**	**356,070**

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

Source:--U.S. Department of Commerce, Bureau of the Cenus.

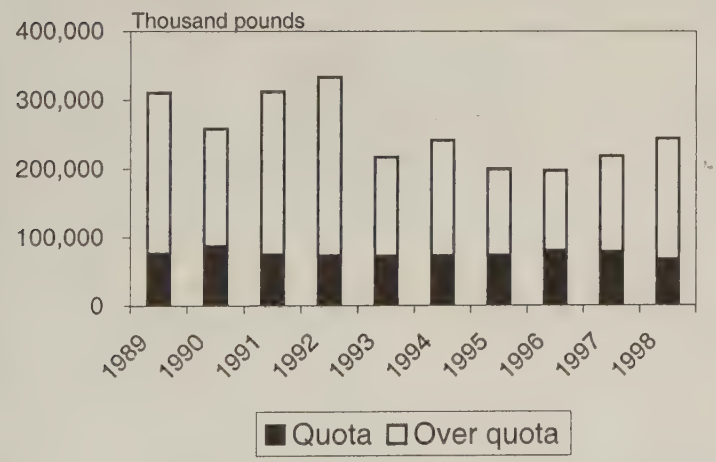
IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1989-98

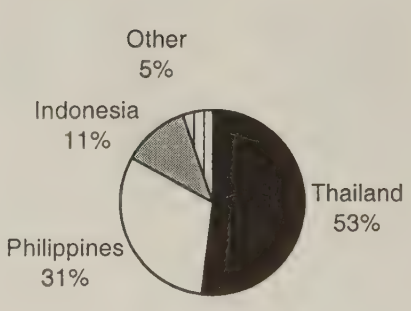
Year	Quota (1)		Over quota (2)		Total	
	Thousand pounds	Metric tons	Thousand pounds	Metric tons	Thousand pounds	Metric tons
1989	76,733	34,806	234,323	106,288	311,056	141,094
1990	87,157	39,534	171,472	77,779	258,628	117,313
1991	75,093	34,062	237,237	107,610	312,330	141,672
1992	73,724	33,441	259,739	117,817	333,463	151,258
1993	72,681	32,968	144,287	65,448	216,968	98,416
1994	73,294	33,246	168,224	76,306	241,518	109,552
1995	73,367	33,279	126,176	57,233	199,543	90,512
1996	80,027	36,300	117,205	53,164	197,232	89,464
1997	78,620	35,662	139,714	63,374	218,335	99,036
1998	67,317	30,535	176,648	80,127	243,965	110,662

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa. Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1998, 6 percent.
(2) Dutiable in 1972 to 1998, 12.5 percent.
Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calendar year, except for receipts for possessions of the U.S., is subject to this quota.
Source:--U.S. Department of the Treasury, U.S. Customs Service.

Canned Tuna Quota and Imports



Imports of Canned Tuna by Major Exporter, 1998



CANNED TUNA, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Thailand	99,513	45,139	129,163	114,302	51,847	150,367
Philippines	80,677	36,595	80,161	85,726	38,885	89,899
Indonesia	20,911	9,485	27,215	27,705	12,567	33,221
Malaysia	2,784	1,263	4,894	2,396	1,087	3,844
Papua New Guinea	106	48	116	3,472	1,575	3,525
Mexico	4,868	2,208	3,789	3,541	1,606	2,947
Ecuador	1,058	480	1,033	1,526	692	2,549
Spain	196	89	499	258	117	751
India	71	32	127	258	117	410
Other	1,986	901	2,966	1,226	556	1,457
Total	**212,171**	**96,240**	**249,963**	**240,409**	**109,049**	**288,970**

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
North America:						
Mexico	74,864	33,958	374,102	78,120	35,435	382,517
Panama	23,236	10,540	87,128	22,465	10,190	91,552
Honduras	18,027	8,177	70,177	18,990	8,614	67,152
Canada	11,254	5,105	26,326	17,366	7,877	45,901
Nicaragua	7,564	3,431	28,663	8,373	3,798	31,298
El Salvador	7,390	3,352	29,974	8,838	4,009	30,906
Guatemala	4,773	2,165	19,055	5,223	2,369	18,807
Belize	1,625	737	7,399	3,056	1,386	11,119
Costa Rico	3,951	1,792	15,870	1,832	831	10,832
Greenland	820	372	1,873	1,082	491	2,773
Other	79	36	235	35	16	124
Total	**153,583**	**69,665**	**660,802**	**165,380**	**75,016**	**692,981**
South America:						
Ecuador	140,517	63,738	583,262	142,303	64,548	572,047
Venezuela	19,098	8,663	76,162	12,615	5,722	47,698
Peru	9,883	4,483	45,577	15,315	6,947	45,499
Guyana	9,453	4,288	25,675	12,414	5,631	29,717
Colombia	7,172	3,253	28,539	4,694	2,129	20,978
Brazil	1,215	551	4,856	1,812	822	7,382
Suriname	1,396	633	4,255	1,938	879	4,253
Chile	750	340	2,740	979	444	3,457
Argentina	42	19	46	66	30	200
Total	**189,525**	**85,968**	**771,112**	**192,135**	**87,152**	**731,231**
Europe:						
European Union:						
United Kingdom	53	24	204	79	36	238
Denmark	397	180	798	88	40	234
Germany	35	16	68	73	33	200
Sweden	4	2	23	13	6	104
Netherlands	11	5	29	35	16	68
Other	123	27	292	141	12	79
Total	**560**	**254**	**1,414**	**315**	**143**	**923**
Other:						
Norway	119	54	372	831	377	2,394
Iceland	313	142	999	789	358	2,136
Russian Federation	-	-	-	194	88	395
Bulgaria	-	-	-	37	17	272
Total	**432**	**196**	**1,371**	**1,852**	**840**	**5,197**
Asia:						
Thailand	161,822	73,402	920,946	203,407	92,265	1,088,062
Indonesia	28,272	12,824	161,615	33,697	15,285	188,739
India	44,103	20,005	138,698	44,425	20,151	150,847
Bangladesh	21,539	9,770	132,487	13,929	6,318	90,847
Viet Nam	7,837	3,555	46,234	11,087	5,029	75,909
China	28,393	12,879	67,763	15,423	6,996	35,936
Philippines	2,617	1,187	12,983	3,915	1,776	20,073
Sri Lanka	414	188	2,299	1,442	654	8,423
Pakistan	2,967	1,346	11,111	3,186	1,445	6,852
Malaysia	708	321	2,940	1,612	731	4,482
Other	5,157	2,339	21,054	3,424	1,553	11,203
Total	**303,829**	**137,816**	**1,518,130**	**335,547**	**152,203**	**1,681,373**
Oceania	35	16	276	82	37	375
Africa	357	162	484	112	51	332
Grand total	**648,322**	**294,077**	**2,953,589**	**695,423**	**315,442**	**3,112,412**

Note:--Statistics on imports are the weights of the individual products as received, i.e., raw headless, peeled, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

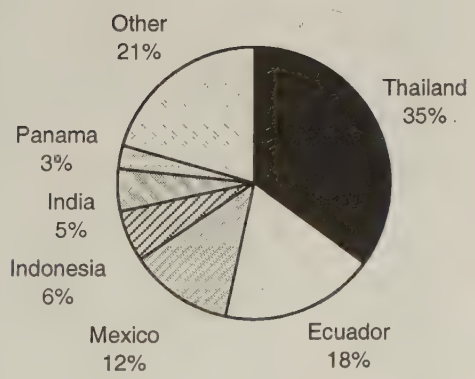
IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1997 AND 1998

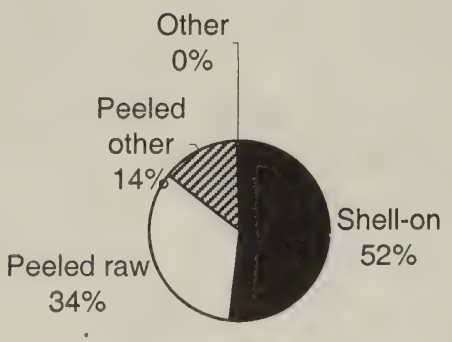
Type of product	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Shell-on (heads off)	343,642	155,875	1,626,734	341,894	155,082	1,607,185
Peeled:						
Canned	3,620	1,642	10,954	3,406	1,545	10,622
Not breaded:						
Raw	235,550	106,845	952,130	264,378	119,921	1,053,583
Other	65,060	29,511	361,538	85,128	38,614	438,206
Breaded	450	204	2,233	617	280	2,816
Total	**648,322**	**294,077**	**2,953,589**	**695,423**	**315,442**	**3,112,412**

Source:--U.S. Department of Commerce, Bureau of the Census.

Shrimp Imports by Major Exporter, 1998



Shrimp Imports by Type, 1998



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1997 AND 1998

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Iceland	17,485	7,931	5,229	34,908	15,834	9,594
Canada	16,788	7,615	5,671	16,144	7,323	5,742
Panama	20,046	9,093	3,923	29,021	13,164	5,079
Mexico	32,968	14,954	7,858	17,141	7,775	4,604
Chile	6,276	2,847	1,602	13,971	6,337	4,218
Peru	47,862	21,710	11,017	10,430	4,731	2,628
Japan	106	48	671	1,343	609	700
Denmark	42	19	12	785	356	300
China	40	18	72	238	108	200
Other	437	198	429	1,424	646	509
Total	**142,049**	**64,433**	**36,484**	**125,404**	**56,883**	**33,574**

Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1997 AND 1998 (1)

Item	1997			1998		
Edible fishery products:	Thousand	Metric	Thousand	Thousand	Metric	Thousand
Fresh and frozen:	pounds	tons	dollars	pounds	tons	dollars
Whole or eviscerated:						
Freshwater	7,972	3,616	8,330	4,751	2,155	6,081
Flatfish	238,637	108,245	148,158	164,856	74,778	103,219
Groundfish	129,915	58,929	97,640	95,735	43,425	74,817
Herring	87,633	39,750	48,245	49,661	22,526	31,164
Sablefish	28,770	13,050	64,314	22,707	10,300	48,253
Salmon	189,942	86,157	307,521	153,436	69,598	255,102
Tuna	24,092	10,928	34,527	34,026	15,434	37,551
Other	264,612	120,027	226,043	281,732	127,793	211,791
Fillets, and steaks:						
Freshwater	379	172	747	520	236	1,123
Groundfish	23,367	10,599	25,820	63,481	28,795	63,478
Other	31,268	14,183	47,608	37,015	16,790	54,316
Blocks and slabs	64,101	29,076	61,786	44,848	20,343	45,820
Surimi	310,242	140,725	330,976	255,317	115,811	248,415
Fish sticks	25,009	11,344	31,508	25,734	11,673	30,354
Clams	1,803	818	3,867	1,649	748	2,825
Crabs	43,133	19,565	108,661	50,739	23,015	108,994
Crabmeat	3,399	1,542	7,818	3,278	1,487	5,568
Lobsters	47,249	21,432	208,646	42,972	19,492	187,762
Scallops (meats)	9,861	4,473	37,116	7,306	3,314	25,055
Sea urchins	7,321	3,321	19,177	4,220	1,914	10,063
Shrimp	34,813	15,791	133,442	32,432	14,711	121,397
Squid	169,509	76,889	91,996	37,595	17,053	31,839
Other fish and shellfish	34,081	11,843	60,784	28,283	10,674	53,773
Total, fresh and frozen	**1,769,136**	**802,475**	**2,104,730**	**1,437,542**	**652,065**	**1,758,760**
Canned:						
Salmon	81,621	37,023	135,437	77,450	35,131	143,288
Sardines	9,321	4,228	8,115	6,314	2,864	4,963
Tuna	9,967	4,521	15,649	9,319	4,227	15,437
Abalone	392	178	7,884	238	108	4,656
Crabmeat	608	276	1,332	558	253	1,374
Shrimp	1,470	667	7,029	1,660	753	8,732
Squid	5,725	2,597	3,504	132	60	155
Other fish and shellfish	20,386	9,247	23,761	48,570	22,031	32,596
Total, canned	**129,492**	**58,737**	**202,711**	**144,240**	**65,427**	**211,201**
Cured:						
Dried	3,221	1,461	10,347	2,434	1,104	6,215
Pickled or salted	6,691	3,035	8,048	12,624	5,726	15,323
Smoked or kippered	679	308	2,503	430	195	1,673
Total, cured	**10,591**	**4,804**	**20,898**	**15,487**	**7,025**	**23,211**
Caviar and roe:						
Herring	18,483	8,384	19,763	15,095	6,847	17,788
Pollock	37,209	16,878	162,422	26,746	12,132	84,714
Salmon	17,491	7,934	63,487	15,800	7,167	50,950
Sea urchin	6,049	2,744	87,090	4,656	2,112	73,589
Other	10,725	4,865	36,361	10,086	4,575	30,955
Total, caviar and roe	**89,959**	**40,805**	**369,123**	**72,384**	**32,833**	**257,996**
Prepared meals	1,852	840	2,591	3,508	1,591	4,238
Other fish and shellfish	17,859	8,101	13,029	15818.005	7,175	12,614
Total edible fishery products	**2,018,889**	**915,762**	**2,713,082**	**1,688,979**	**766,116**	**2,268,020**
Nonedible fishery products:						
Meal and scrap	216,289	98,108	57,197	210,658	95,554	68,447
Fish oils	215,255	97,639	53,716	196,664	89,206	59,890
Other	-	-	6,583,336	-	-	6,368,938
Total nonedible fishery products	**-**	**-**	**6,640,533**	**-**	**-**	**6,437,385**
Grand total	**-**	**-**	**9,353,615**	**-**	**-**	**8,705,405**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

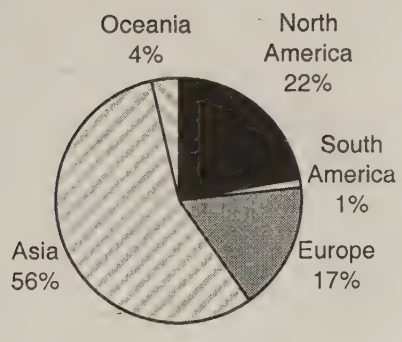
EXPORTS

FISHERY PRODUCTS EXPORTS, 1989-98 (1)

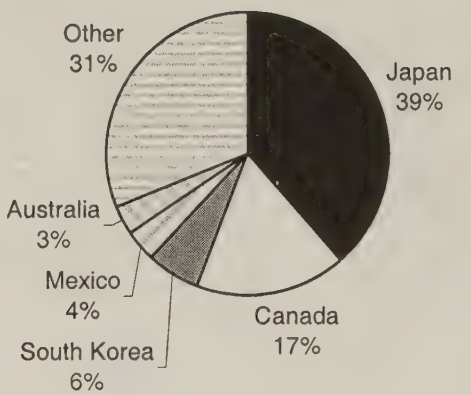
Year	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
1989	1,405,977	637,747	2,355,603	2,582,538	4,938,141
1990	1,947,292	883,286	2,881,262	3,084,677	5,965,939
1991	2,058,594	933,772	3,155,771	3,386,037	6,541,808
1992	2,087,606	946,932	3,465,667	3,653,965	7,119,632
1993	1,986,027	900,856	3,076,813	3,847,911	6,924,724
1994	1,978,507	897,445	3,126,120	4,254,741	7,380,861
1995	2,047,181	928,595	3,262,242	5,005,878	8,268,120
1996	2,112,055	958,022	3,032,282	5,621,169	8,653,451
1997	2,018,889	915,762	2,713,082	6,640,553	9,353,635
1998	1,688,979	766,116	2,268,020	6,437,385	8,705,405

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

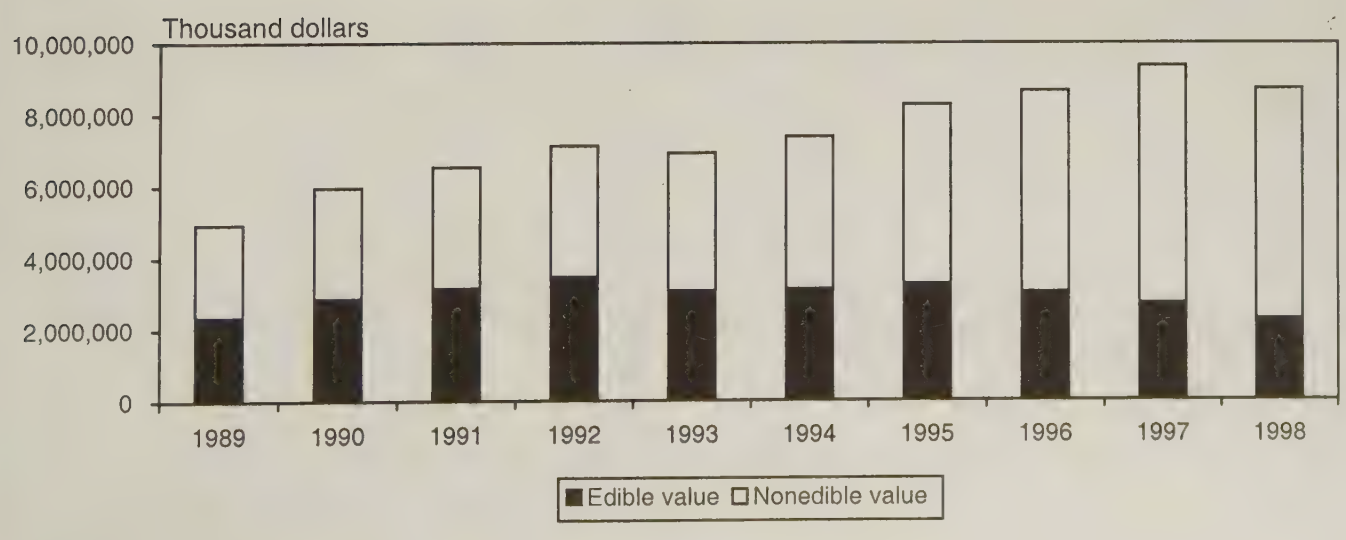
U.S. Exports to Major Areas by Volume, 1998



U.S. Exports to Major Importers by Volume, 1998



U.S. FISHERY PRODUCT EXPORTS



EXPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS EXPORTS, 1998 (1)

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	Metric tons	Thousand dollars	
North America:				
Canada	288,421	130,827	501,694	1,394,050	1,895,744
Mexico	60,221	27,316	62,308	608,273	670,581
Netherlands Antilles	1,116	506	1,800	92,198	93,998
Panama	3,223	1,462	4,078	64,154	68,232
Dominican Republic	3,296	1,495	3,394	60,357	63,751
Other	17,956	8,145	25,510	254,409	279,919
Total	**374,233**	**169,751**	**598,784**	**2,473,441**	**3,072,225**
South America:				
Brazil	3,849	1,746	6,351	203,832	210,183
Argentina	485	220	499	83,934	84,433
Venezuela	4,257	1,931	2,857	61,806	64,663
Colombia	3,311	1,502	3,419	50,642	54,061
Chile	485	220	402	45,309	45,711
Other	5,631	2,554	6,373	87,508	93,881
Total	**18,018**	**8,173**	**19,901**	**533,031**	**552,932**
Europe:				
European Union:				
United Kingdom	44,200	20,049	86,492	279,981	366,473
Netherlands	20,302	9,209	27,723	201,068	228,791
France	51,316	23,277	85,774	114,526	200,300
Germany	34,019	15,431	42,539	155,589	198,128
Belgium	5,884	2,669	11,677	141,708	153,385
Other	89,888	40,773	127,626	295,159	422,785
Total	**245,610**	**111,408**	**381,831**	**1,188,031**	**1,569,862**
Other:				
Switzerland	851	386	2,924	240,511	243,435
Norway	25,371	11,508	23,436	18,796	42,232
Russian Federation	4,733	2,147	5,482	17,571	23,053
Estonia	1,087	493	2,848	11,776	14,624
Turkey	198	90	215	10,358	10,573
Other	10,690	4,849	7,122	38,728	45,850
Total	**42,930**	**19,473**	**42,027**	**337,740**	**379,767**
Asia:				
Japan	654,297	296,787	914,096	639,068	1,553,164
Hong Kong	14,281	6,478	30,441	302,296	332,737
South Korea	103,709	47,042	93,474	96,769	190,243
Taiwan	21,755	9,868	40,169	119,585	159,754
Singapore	2,163	981	7,231	120,393	127,624
Other	150,651	68,335	104,393	370,347	474,740
Total	**946,856**	**429,491**	**1,189,804**	**1,648,458**	**2,838,262**
Oceania:				
Australia	55,620	25,229	28,954	146,420	175,374
New Zealand	1,850	839	2,517	24,552	27,069
French Polynesia	1,038	471	1,208	1,834	3,042
New Caledonia	209	95	204	910	1,114
Fiji	897	407	695	292	987
Other	955	433	630	1,349	1,979
Total	**60,569**	**27,474**	**34,208**	**175,357**	**209,565**
Africa:				
South Africa	540	245	956	48,827	49,783
Egypt	40	18	68	9,547	9,615
Zimbabwe	-	-	-	9,252	9,252
Nigeria	-	-	-	5,199	5,199
Morocco	20	9	20	1,286	1,306
Other	163	74	421	7,216	7,637
Total	**763**	**346**	**1,465**	**81,327**	**82,792**
Grand total	**1,688,979**	**766,116**	**2,268,020**	**6,437,385**	**8,705,405**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

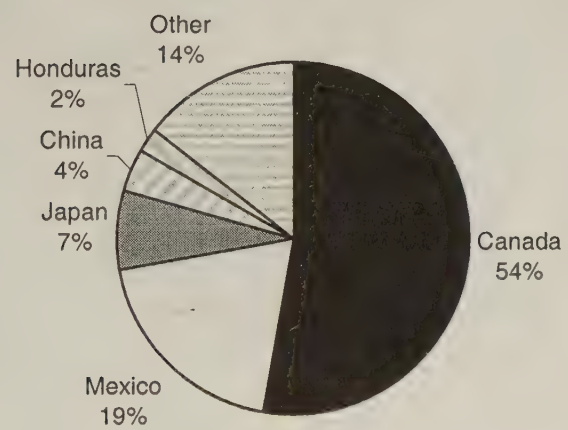
EXPORTS

FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

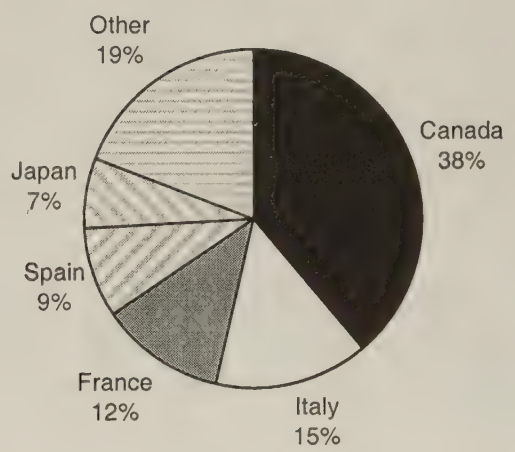
Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	17,381	7,884	71,724	15,858	7,193	64,085
Mexico	8,023	3,639	24,772	8,131	3,688	23,481
Japan	1,620	735	9,366	1,711	776	8,813
China	1,495	678	4,119	1,724	782	4,697
Honduras	935	424	3,558	791	359	2,906
Thailand	809	367	2,958	631	286	2,729
Brazil	988	448	3,261	487	221	1,712
Singapore	46	21	186	280	127	1,709
Bermuda	159	72	1,012	163	74	1,063
Other	3,358	1,523	12,486	2,657	1,205	10,202
Total	**34,813**	**15,791**	**133,442**	**32,432**	**14,711**	**121,397**

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Shrimp, 1998



U.S. Exports of Lobster, 1998



FRESH AND FROZEN LOBSTER EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Canada	28,151	12,769	93,850	21,799	9,888	72,816
Italy	3,761	1,706	19,617	5,337	2,421	28,019
France	3,131	1,420	16,971	4,160	1,887	22,085
Spain	1,916	869	9,372	3,399	1,542	16,084
Japan	2,246	1,019	15,821	1,978	897	12,610
Taiwan	2,884	1,308	23,229	1,367	620	11,001
Germany	492	223	2,839	637	289	3,601
Hong Kong	1,089	494	6,270	516	234	3,168
United Kingdom	518	235	2,790	509	231	2,478
Other	3,062	1,389	17,887	3,269	1,483	15,900
Total	**47,249**	**21,432**	**208,646**	**42,972**	**19,492**	**187,762**

(1) Figures reflect both domestic and foreign (re-export).
Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

EXPORTS

FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	113,477	51,473	208,038	66,918	30,354	148,041
Canada	35,289	16,007	52,136	43,550	19,754	56,196
France	11,058	5,016	12,750	9,303	4,220	10,171
China	2,533	1,149	2,513	5,481	2,486	9,735
Germany	2,899	1,315	2,849	10,300	4,672	9,226
United Kingdom	2,163	981	2,210	2,244	1,018	3,083
Denmark	3,366	1,527	3,566	2,727	1,237	2,799
Belgium	3,662	1,661	4,383	1,821	826	2,318
Netherlands	957	434	1,338	1,069	485	1,786
Other	14,537	6,594	17,738	10,022	4,546	11,747
Total	**189,942**	**86,157**	**307,521**	**153,436**	**69,598**	**255,102**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
United Kingdom	35,075	15,910	67,228	31,804	14,426	66,885
Canada	20,763	9,418	29,277	27,401	12,429	43,001
Australia	11,565	5,246	18,415	7,917	3,591	15,380
Netherlands	6,479	2,939	10,192	5,236	2,375	8,689
France	831	377	1,139	1,691	767	2,899
New Zealand	1,664	755	2,140	871	395	1,997
Belgium	1,612	731	2,108	677	307	1,043
Japan	589	267	910	276	125	533
Ireland	388	176	668	337	153	518
Other	2,654	1,204	3,360	1,241	563	2,343
Total	**81,621**	**37,023**	**135,437**	**77,450**	**35,131**	**143,288**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

FROZEN SURIMI EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	242,012	109,776	261,683	188,379	85,448	176,879
South Korea	37,364	16,948	41,335	42,236	19,158	48,470
Taiwan	5,095	2,311	4,032	6,177	2,802	5,141
France	6,874	3,118	4,970	5,234	2,374	4,644
China	8,510	3,860	7,165	2,926	1,327	2,738
Norway	86	39	86	1,396	633	2,315
Canada	1,559	707	1,652	1,440	653	1,296
Netherlands	97	44	165	1,124	510	1,224
Malaysia	1,193	541	1,454	915	415	849
Other	7,454	3,381	8,434	5,492	2,491	4,859
Total	**310,242**	**140,725**	**330,976**	**255,317**	**115,811**	**248,415**

(1) Figures reflect both domestic and foreign (re-exports).

Source:--U.S. Department of Commerce, Bureau of the Census.

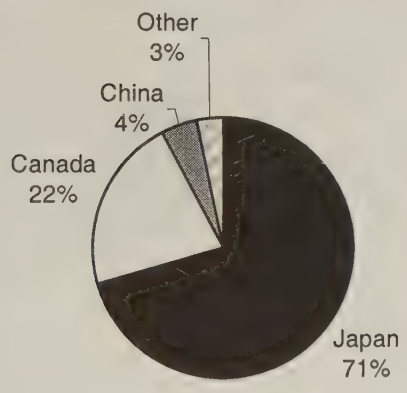
EXPORTS

FRESH AND FROZEN CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

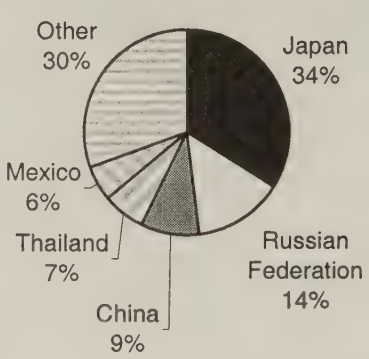
Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	28,955	13,134	82,230	33,552	15,219	76,928
Canada	10,571	4,795	17,712	12,681	5,752	23,522
China	1,349	612	2,228	2,557	1,160	4,812
Hong Kong	163	74	418	441	200	551
United Kingdom	55	25	332	121	55	459
Thailand	897	407	2,658	461	209	377
South Korea	75	34	301	55	25	357
France	9	4	50	82	37	344
Belgium	49	22	313	130	59	201
Other	1,010	458	2,419	659	299	1,443
Total	**43,133**	**19,565**	**108,661**	**50,739**	**23,015**	**108,994**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Censu

U.S. Exports of Crab, 1998



U.S. Exports of Crabmeat, 1998



FRESH AND FROZEN CRABMEAT EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Japan	1,497	679	3,813	882	400	1,884
Russian Federation	875	397	1,206	699	317	793
China	183	83	598	370	168	515
Thailand	-	-	-	399	181	371
Mexico	86	39	149	112	51	307
Canada	150	68	443	73	33	257
Hong Kong	159	72	459	42	19	209
Portugal	-	-	-	93	42	130
Germany	2	1	9	128	58	124
Other	448	203	1,141	481	218	978
Total	**3,399**	**1,542**	**7,818**	**3,278**	**1,487**	**5,568**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

FOREIGN TRADE

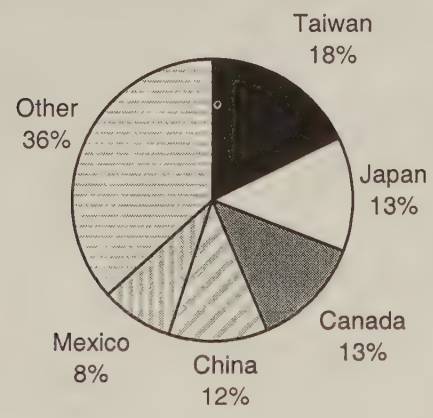
EXPORTS

FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

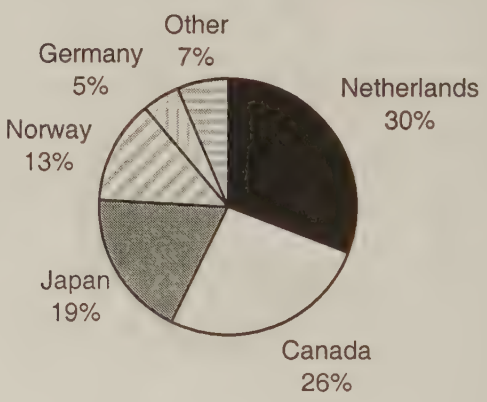
Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Taiwan	43,651	19,800	10,897	42,355	19,212	12,234
Japan	22,123	10,035	6,108	27,793	12,607	8,851
Canada	39,169	17,767	10,463	35,280	16,003	8,678
China	73,318	33,257	13,995	29,156	13,225	7,968
Mexico	1,887	856	2,093	7,690	3,488	5,632
Philippines	7,474	3,390	2,386	5,871	2,663	5,132
Germany	15	7	30	12,542	5,689	3,154
Italy	62	28	289	8,532	3,870	2,688
Israel	37	17	5	4,841	2,196	1,532
Other	28,552	12,951	10,931	36,599	16,601	12,578
Total	**216,289**	**98,108**	**57,197**	**210,658**	**95,554**	**68,447**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Fish Meal, 1998



U.S. Exports of Fish Oil, 1998



FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1997 AND 1998 (1)

Country	1997			1998		
	Thousand pounds	Metric tons	Thousand dollars	Thousand pounds	Metric tons	Thousand dollars
Netherlands	116,249	52,730	26,420	63,819	28,948	18,463
Canada	46,806	21,231	13,244	49,720	22,553	15,867
Japan	6,762	3,067	1,251	35,950	16,307	11,104
Norway	121	55	59	28,774	13,052	7,809
Germany	-	-	-	11,025	5,001	2,750
China	5,099	2,313	2,068	2,707	1,228	1,743
United Kingdon	185	84	108	639	290	583
Mexico	22,716	10,304	5,131	1,858	843	478
Hong Kong	3,018	1,369	1,619	604	274	367
Other	14,299	6,486	3,816	1,565	710	726
Total	**215,255**	**97,639**	**53,716**	**196,664**	**89,206**	**59,890**

(1) Figures reflect both domestic and foreign (re-exports).
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1989	8,463	7,022	2,690	12,795
1990	9,404	6,945	4,191	12,158
1991	9,484	6,879	4,719	11,644
1992	9,637	6,469	5,278	10,828
1993	10,467	9,867	5,578	14,756
1994	10,461	8,848	5,202	14,107
1995	9,788	6,696	5,252	11,232
1996	9,565	6,909	5,418	11,056
1997	9,842	7,290	5,537	11,595
1998	9,194	7,703	4,889	12,008

(1) Preliminary.
Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats excluding the shell.

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1989-98
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1989	6,204	6,064	2,089	10,179
1990	7,041	5,621	3,396	9,266
1991	7,031	5,989	3,564	9,456
1992	7,618	5,624	4,123	9,119
1993	8,214	5,607	4,386	9,435
1994	7,936	5,778	4,306	9,408
1995	7,667	5,917	4,261	9,323
1996	7,474	6,150	4,374	9,250
1997	7,244	6,495	4,326	9,413
1998	7,173	7,001	3,709	10,465

(1) Preliminary.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1989-98
(Round weight)

Year	Domestic commercial landings (1)	Imports	Exports	Total
	Million pounds			
1989	2,259	958	601	2,616
1990	2,363	1,324	795	2,892
1991	2,453	890	1,155	2,188
1992	2,019	845	1,448	1,416
1993	2,253	4,260	1,192	5,321
1994	2,525	3,070	896	4,699
1995	2,121	779	991	1,909
1996	2,091	759	1,044	1,806
1997	2,598	795	1,211	2,182
1998	2,021	702	1,180	1,543

(1) Preliminary.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1997 AND 1998

Item	Domestic commercial landings		Imports		Exports		Total	
	1997	1998	1997	1998	1997	1998	1997	1998
	Thousand pounds--round weight							
Edible products:								
Finfish	5,968,912	5,935,025	4,611,551	4,901,349	3,828,613	3,374,636	6,751,850	7,461,738
Shellfish, et al	1,276,575	1,238,478	1,883,149	2,099,667	497,102	334,322	2,662,622	3,003,823
Total, edible	**7,245,487**	**7,173,503**	**6,494,700**	**7,001,016**	**4,325,715**	**3,708,958**	**9,414,472**	**10,465,561**
Industrial products: (1)								
Finfish	2,428,374	1,952,995	795,474	702,264	1,211,218	1,179,687	2,012,630	1,475,572
Shellfish, et al	169,386	67,472	(2)	(2)	(2)	(2)	169,386	67,472
Total, industrial	**2,597,760**	**2,020,467**	**795,474**	**702,264**	**1,211,218**	**1,179,687**	**2,182,016**	**1,543,044**
Total:								
Finfish	8,397,286	7,888,020	5,407,025	5,603,613	5,039,831	4,554,323	8,764,480	8,937,310
Shellfish, et al	1,445,961	1,305,950	1,883,149	2,099,667	497,102	334,322	2,832,008	3,071,295
Grand total	**9,843,247**	**9,193,970**	**7,290,174**	**7,703,280**	**5,536,933**	**4,888,645**	**11,596,488**	**12,008,605**

(1) Includes only quantity harvested for fish meal.

(2) Not available.

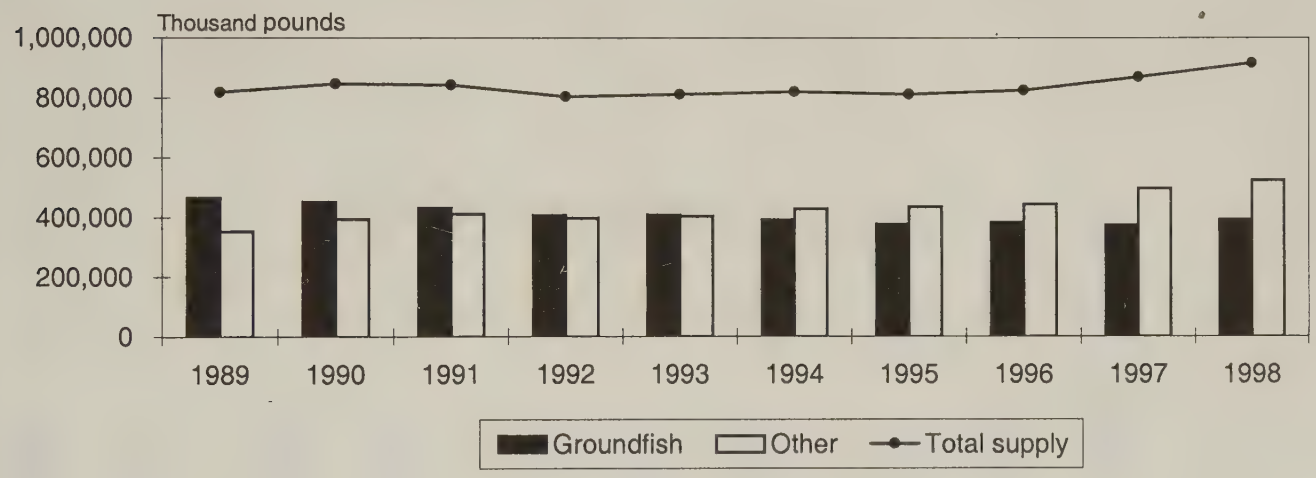
NOTE:--Total landings shown in this table may not agree with landings reported in other tables due to rounding.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1989-98
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	371,082	517,620	888,702	68,931	819,771
1990	440,692	458,413	899,105	51,599	847,506
1991	472,668	440,018	912,686	69,086	843,600
1992	448,664	408,059	856,723	52,247	804,476
1993	420,169	440,354	860,523	48,847	811,676
1994	425,022	439,059	864,081	43,252	820,829
1995	385,293	477,483	862,776	50,785	811,991
1996	423,309	476,469	899,778	74,368	825,410
1997	409,652	514,805	924,457	55,014	869,443
1998	438,744	578,561	1,017,305	101,016	916,289

(1) Includes fillets used to produce blocks.

U.S. Supply of Fillets and Steaks



U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1989-98
(Edible weight)

Year	U.S. production (1)	Imports	Total	Exports (2)	Total supply
	Thousand pounds				
1989	211,498	265,001	476,499	9,652	466,847
1990	258,809	200,980	459,789	6,944	452,845
1991	264,323	202,409	466,732	34,442	432,290
1992	252,358	172,755	425,113	17,507	407,606
1993	233,755	186,516	420,271	12,242	408,029
1994	220,357	189,097	409,454	17,639	391,815
1995	216,699	184,845	401,544	24,606	376,938
1996	245,406	178,209	423,615	41,691	381,924
1997	220,403	176,125	396,528	23,367	373,161
1998	269,004	186,937	455,941	63,481	392,460

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, pollock, and ocean perch.

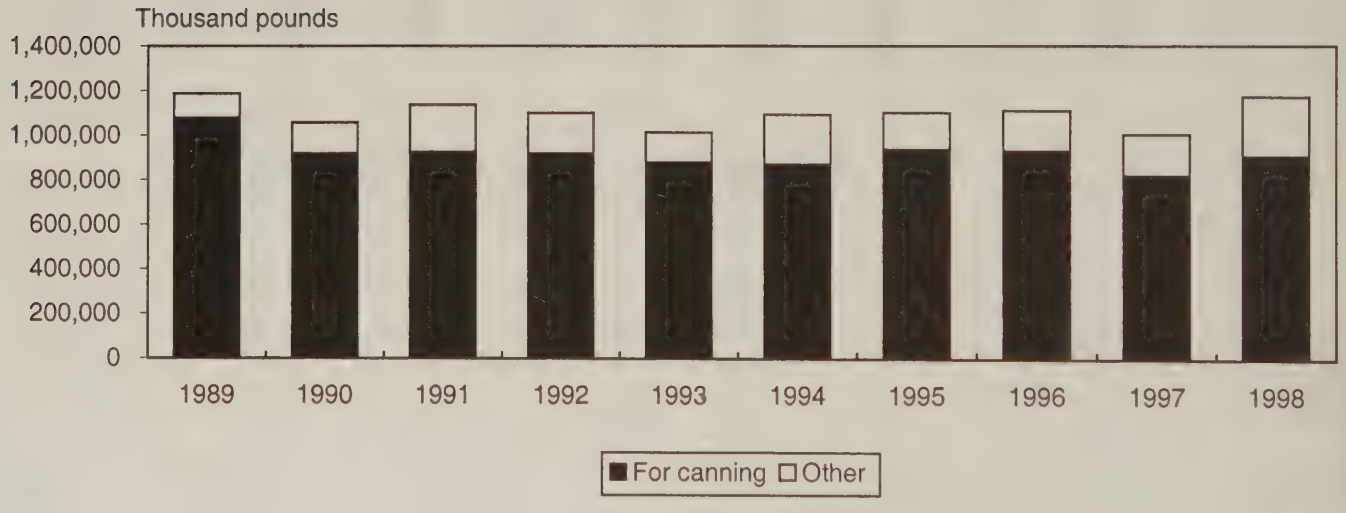
(2) Species include: cod 1989-98; pollock 1991-98.

U.S. SUPPLY OF FRESH AND FROZEN TUNA, 1989-98
(Round weight)

Year	U.S. commercial landings (1)			Imports (2)			Exports total	Total supply
	For canning	Other	Total	For canning	Other	Total		
	Thousand pounds							
1989	452,278	87,823	540,101	625,738	38,564	664,302	17,478	1,186,925
1990	391,954	119,955	511,909	526,496	37,826	564,322	19,773	1,056,458
1991	346,322	178,025	524,347	579,556	50,290	629,846	17,714	1,136,479
1992	435,924	137,933	573,857	482,677	63,524	546,201	20,011	1,100,047
1993	426,036	62,933	488,969	453,046	92,965	546,011	21,660	1,013,320
1994	401,732	157,695	559,427	469,514	92,352	561,866	28,512	1,092,781
1995	407,036	86,956	493,992	531,266	105,304	636,570	28,869	1,101,693
1996	364,652	91,612	456,264	567,266	119,247	686,513	31,382	1,111,395
1997	354,074	102,567	456,641	467,526	105,806	573,332	24,092	1,005,881
1998	318,144	161,305	479,449	590,568	137,852	728,420	34,026	1,173,843

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.
(2) Includes landings in American Samoa of foreign caught fish.

U.S. SUPPLY OF FRESH AND FROZEN TUNA



U.S. SUPPLY OF CANNED SARDINES, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	13,221	56,379	69,600	9,070	60,530
1990	13,240	56,963	70,203	9,048	61,155
1991	13,986	48,515	62,501	10,668	51,833
1992	17,437	36,511	53,948	12,690	41,258
1993	14,354	39,111	53,465	12,275	41,190
1994	15,560	43,942	59,502	11,010	48,492
1995	13,567	42,280	55,847	11,773	44,074
1996	17,672	40,926	58,598	12,207	46,391
1997	15,976	42,771	58,747	9,321	49,426
1998	11,842	44,328	56,170	6,314	49,856

U.S. SUPPLY OF CANNED SALMON, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	197,044	2,943	199,987	40,497	159,490
1990	196,383	1,378	197,761	49,546	148,215
1991	195,744	983	196,727	66,134	130,593
1992	149,453	974	150,427	77,895	72,532
1993	198,344	428	198,772	84,610	114,162
1994	206,841	1,093	207,934	90,915	117,019
1995	243,568	1,202	244,770	98,197	146,573
1996	197,163	2,266	199,429	95,530	103,899
1997	162,106	1,228	163,334	81,621	81,713
1998	162,502	1,323	163,825	77,450	86,375

U.S. SUPPLY OF CANNED TUNA, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	686,267	348,212	1,034,479	6,495	1,027,984
1990	580,601	284,593	865,194	9,039	856,155
1991	592,786	351,744	944,530	11,310	933,220
1992	608,981	323,413	932,394	10,141	922,253
1993	618,743	224,419	843,162	8,534	834,628
1994	609,514	249,043	858,557	8,391	850,166
1995	666,581	215,365	881,946	7,385	874,561
1996	675,816	193,037	868,853	9,866	858,987
1997	627,032	212,171	839,203	9,967	829,236
1998	680,853	240,409	921,262	9,319	911,943

SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF KING CRAB, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (1)	Total supply
	Thousand pounds				
1989	26,391	5,150	31,541	(2) 13,196	18,345
1990	33,917	4,925	38,842	(2) 19,486	19,356
1991	28,140	7,087	35,227	15,320	19,907
1992	19,056	11,958	31,014	16,241	14,773
1993	24,732	7,395	32,127	24,372	7,755
1994	11,960	15,035	26,995	15,013	11,982
1995	14,673	18,360	33,033	11,847	21,186
1996	21,000	26,533	47,533	17,650	29,883
1997	18,027	39,666	57,693	12,516	45,177
1998	24,122	51,655	75,777	13,575	62,202

(1) Imports, exports, foreign exports converted to round (live) weight by using these conversion factors: frozen, 1.75; meat, 4.50; and canned, 5.33. (2) Estimated, based on available foreign import data.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1989	164,643	3,927	168,570	(3) 111,028	57,542
1990	213,395	10,772	224167	(3) 187,069	37,098
1991	357,122	19,091	376,213	(3) 316,162	60,051
1992	350,039	18,882	368,921	281,214	87,707
1993	255,733	31,224	286,957	220,618	66,339
1994	159,574	27,446	187,020	147,006	40,014
1995	80,817	20,969	101,786	59,805	41,981
1996	67,867	28,336	96,203	50,509	45,694
1997	118,898	41,959	160,857	50,604	110,253
1998	251,831	60,166	311,997	58,366	253,631

(1) Converted to round (live) weight by multiplying fresh and frozen by 1.50; meat, 4.50; and canned, 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (belived to be mostly sections); meat, 4.50; and canned, 5.33. Foreign exports converted using the same factors as imports. (3) Estimated, based on available foreign import data.

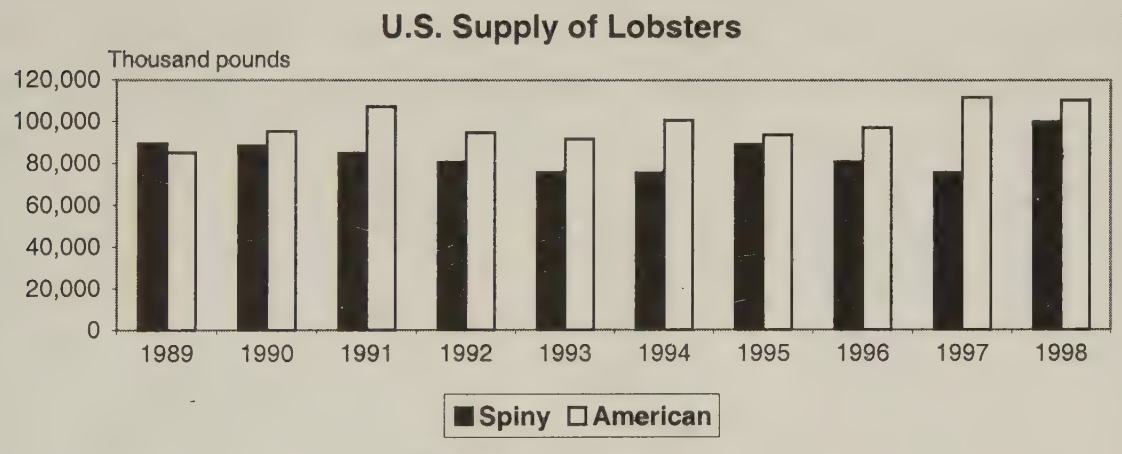
U.S. SUPPLY OF CANNED CRABMEAT, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	504	8,280	8,784	930	7,854
1990	695	8,563	9,258	434	8,824
1991	77	11,385	11,462	525	10,937
1992	99	9,577	9,676	789	8,887
1993	70	9,817	9,887	668	9,219
1994	17	9,852	9,869	511	9,358
1995	65	12,441	12,506	276	12,230
1996	93	12,773	12,866	337	12,529
1997	83	15,871	15,954	608	15,346
1998	78	22,020	22,098	558	21,540

U.S. SUPPLY OF AMERICAN LOBSTERS,1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1989	52,926	42,530	95,456	10,310	85,146
1990	61,017	49,592	110,609	15,274	95,335
1991	63,337	65,381	128,718	21,485	107,233
1992	55,841	59,335	115,176	20,332	94,844
1993	56,513	55,570	112,083	20,354	91,729
1994	66,416	65,949	132,365	31,646	100,719
1995	66,406	62,923	129,329	35,587	93,742
1996	71,641	65,379	137,020	39,919	97,101
1997	83,921	73,033	156,954	45,262	111,692
1998	79,642	73,601	153,243	42,874	110,369

(1) Only imports from Canada and St. Pierre and Miquelon are considered American lobster and were converted to round (live) by using these conversion factors: 1.00, Whole; 4.50, meat; and 4.64, canned. (2) Domestic exports converted to live weight by 1.00, whole; 4.00, meat; and 4.50, canned. Foreign exports converted using import factors.



U.S. SUPPLY OF SPINY LOBSTERS,1989-98
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1989	8,125	87,793	95,918	6,373	89,545
1990	7,120	88,426	95,546	6,948	88,598
1991	7,096	81,332	88,428	3,388	85,040
1992	4,872	77,848	82,720	2,001	80,719
1993	6,076	70,884	76,960	1,306	75,654
1994	8,104	68,787	76,891	1,304	75,587
1995	7,123	86,900	94,023	5,035	88,988
1996	8,308	75,595	83,903	3,033	80,870
1997	7,240	74,120	81,360	5,842	75,518
1998	5,935	95,801	101,736	1,802	99,934

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35 other, and 4.50 canned. (2) Domestic exports converted to round weight by using: 1.00, whole; 3.00, tails; 4.00, other, 4.50 canned. Foreign exports converted using import factors.

U.S. SUPPLY OF CLAMS, 1989-98
(Meat weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports	Total supply
	Thousand pounds				
1989	138,166	13,254	151,420	1,863	149,557
1990	139,198	15,830	155,028	2,961	152,067
1991	134,243	12,291	146,534	2,948	143,586
1992	142,449	14,262	156,711	1,662	155,049
1993	147,752	9,579	157,331	1,809	155,522
1994	131,427	15,507	146,934	2,617	144,317
1995	134,224	12,645	146,869	2,853	144,016
1996	123,239	14,340	137,579	3,448	134,131
1997	114,180	13,184	127,364	3,651	123,713
1998	107,959	15,666	123,625	4,318	119,307

(1) For specific breakout see table on page 1.
(2) Imports and exports were converted to meat weight by using these conversion factors: 0.40 in shell or shucked; 0.30, canned chowder and juice; and 0.93, other.

U.S. SUPPLY OF OYSTERS, 1989-98
(Meat weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports	Total supply
	Thousand pounds				
1989	29,250	37,662	66,912	1,090	65,822
1990	29,193	27,546	56,739	1,004	55,735
1991	31,859	30,547	62,406	739	61,667
1992	36,156	26,529	62,685	797	61,888
1993	33,575	28,244	61,819	1,131	60,688
1994	38,086	24,694	62,780	1,988	60,792
1995	40,380	24,200	64,580	1,908	62,672
1996	38,007	21,708	59,715	1,648	58,067
1997	39,652	20,533	60,185	2,191	57,994
1998	33,538	29,575	63,113	1,877	61,236

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. (2) Not reported.

U.S. SUPPLY OF SCALLOPS, 1989-98
(Meat weight)

Year	U.S. commercial landings (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	40,611	40,874	81,485	2,498	78,987
1990	41,591	39,839	81,430	7,099	74,331
1991	39,740	29,528	69,268	7,083	62,185
1992	33,884	38,682	72,566	3,589	68,977
1993	18,638	51,973	70,611	4,147	66,464
1994	25,469	56,676	82,145	5,990	76,155
1995	19,526	48,331	67,857	5,926	61,931
1996	18,197	58,686	76,883	6,191	70,692
1997	15,474	60,146	75,620	9,861	65,759
1998	13,166	52,445	65,611	7,306	58,305

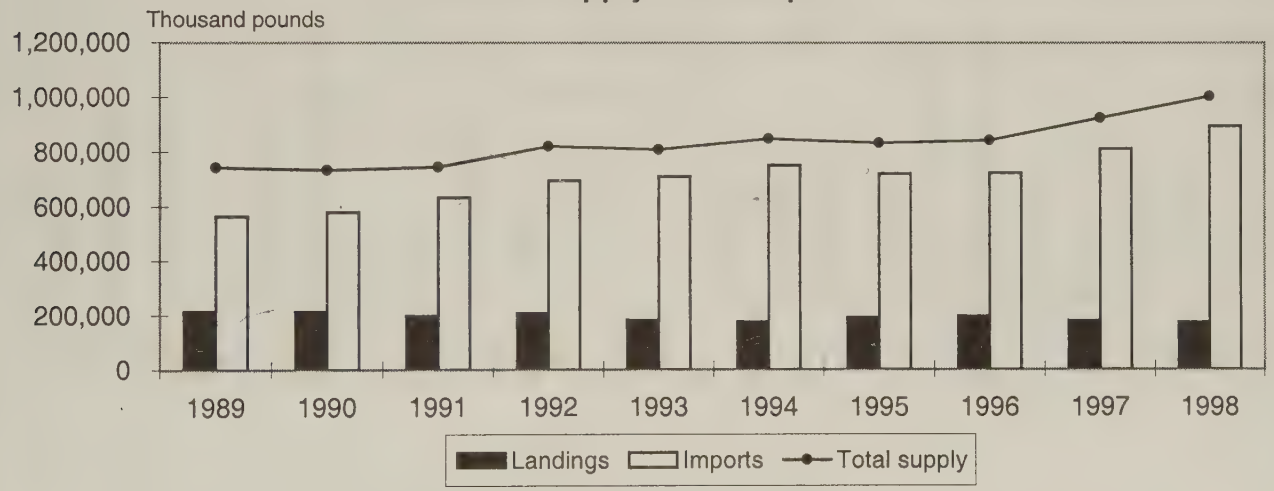
(1) For specific breakout see table on page 1.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1989-98
(Heads-off weight)

Year	U.S. commercial landings (1)	Imports (2)	Total	Exports (3)	Total supply
	Thousand pounds				
1989	215,825	563,523	779,348	36,056	743,292
1990	213,899	579,427	793,326	59,683	733,643
1991	198,115	632,775	830,890	87,186	743,704
1992	207,086	694,254	901,340	81,604	819,736
1993	180,687	708,683	889,370	81,447	807,923
1994	174,969	749,993	924,962	77,755	847,207
1995	190,208	719,463	909,671	77,677	831,994
1996	195,902	720,852	916,754	75,130	841,624
1997	179,084	810,696	989,780	66,674	923,106
1998	173,304	893,578	1,066,882	65,302	1,001,580

(1) Commercial landings were converted to heads-off weight by using these conversion factors: South Atlantic and Gulf, 0.629; and New England, Pacific and other, 0.57.
(2) Imports were converted to heads-off weight by using these conversion factors: breaded,0.63; shell-on, 1.00; peeled raw, 1.28; canned, 2.52; and other, 2.40.
(3) Exports were converted to heads-off weight by using these conversion factors: domestic fresh and frozen, 1.18; canned, 2.02; other, 2.40; foreign--fresh and frozen, 1.00; canned, 2.52; and other, 2.40.

U.S. Supply of Shrimp



U.S. SUPPLY OF CANNED SHRIMP, 1989-98
(Canned weight)

Year	U.S. pack	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	2,623	11,315	13,938	2,128	11,810
1990	710	9,735	10,445	2,670	7,775
1991	632	9,361	9,993	2,352	7,641
1992	640	9,273	9,913	1,931	7,982
1993	658	8,170	8,828	2,557	6,271
1994	463	6,314	6,777	1,841	4,936
1995	912	6,570	7,482	3,250	4,232
1996	819	3,563	4,382	2,665	1,717
1997	1,168	3,620	4,788	1,470	3,318
1998	194	3,406	3,600	1,660	1,940

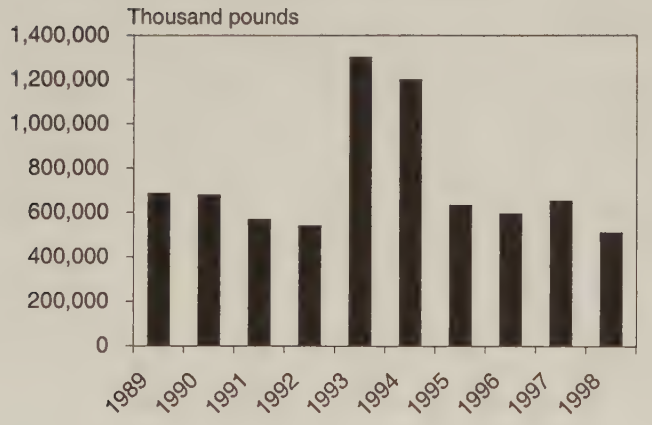
SUPPLY OF FISHERY PRODUCTS

U.S. SUPPLY OF FISH MEAL, 1989-99
(Product weight)

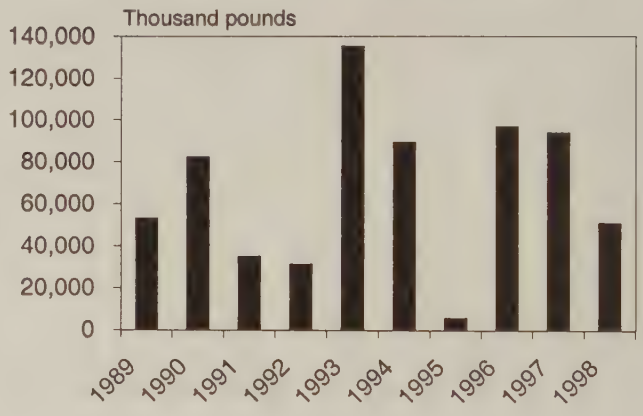
Year	U.S. production (1)	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	618,382	171,112	789,494	107,350	682,144
1990	577,498	239,426	816,924	141,888	675,036
1991	612,716	158,916	771,632	206,320	565,312
1992	644,512	150,911	795,423	258,511	536,912
1993	750,744	760,664	1,511,408	212,859	1,298,549
1994	807,833	548,288	1,356,121	159,937	1,196,184
1995	667,240	139,101	806,341	176,981	629,360
1996	643,124	135,561	778,685	186,412	592,273
1997	724,668	142,049	866,717	216,289	650,428
1998	592,552	125,404	717,956	210,658	507,298

(1) Includes shellfish meal.

U.S. Supply of Fish Meal



U.S. Supply of Fish Oils



U.S. SUPPLY OF FISH OILS, 1989-98
(Product weight)

Year	U.S. production	Imports	Total	Exports	Total supply
	Thousand pounds				
1989	225,478	25,449	250,927	198,009	52,918
1990	281,949	36,702	318,651	236,589	82,062
1991	267,345	21,828	289,173	254,525	34,648
1992	184,725	23,772	208,497	177,444	31,053
1993	293,452	26,052	319,504	184,488	135,016
1994	291,189	40,642	331,831	242,788	89,043
1995	241,941	23,913	265,854	260,394	5,460
1996	248,399	35,622	284,021	187,294	96,727
1997	283,379	25,622	309,001	215,255	93,746
1998	223,149	24,213	247,362	196,664	50,698

PER CAPITA CONSUMPTION

The NMFS calculation of per capita consumption is based on a "disappearance" model. The total U.S. supply of imports and landings is converted to edible weight and decreases in supply such as exports and inventories are subtracted out. The remaining total is divided by a population value to estimate per capita consumption. Data for the model are derived primarily from secondary sources and are subject to incomplete reporting; changes in source data or invalid model assumptions may each have a significant effect on the resulting calculation.

U.S. per capita consumption of fish and shellfish was 14.9 pounds (edible meat) in 1998. This total was 0.3 pounds more than the 14.6 pounds consumed in 1997. Per capita consumption of fresh and frozen products was 10.2 pounds, 0.3 pound more than 1997.

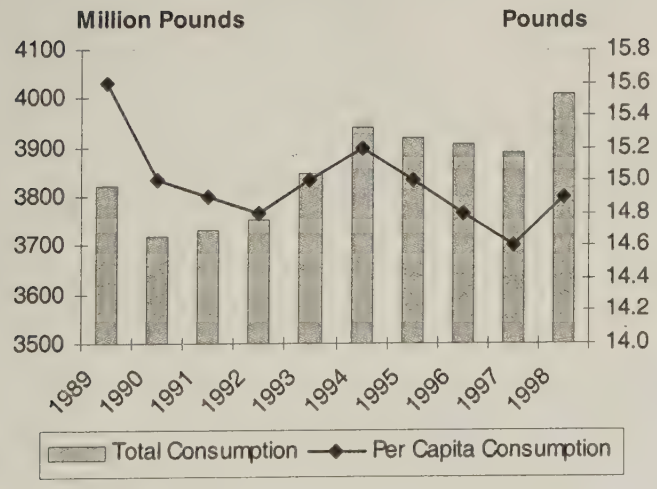
Fresh and frozen finfish accounted for 5.8 pounds while fresh and frozen shellfish consumption was 4.4 pounds per capita. The fresh and frozen finfish includes approximately 1.0 pound of farm raised catfish.

Consumption of canned fishery products was 4.4 pounds per capita in 1998, the same as 1997. Cured fish accounted for 0.3 pound per capita, the same as in previous years. Imports of edible seafood made up 63 percent of the consumption.

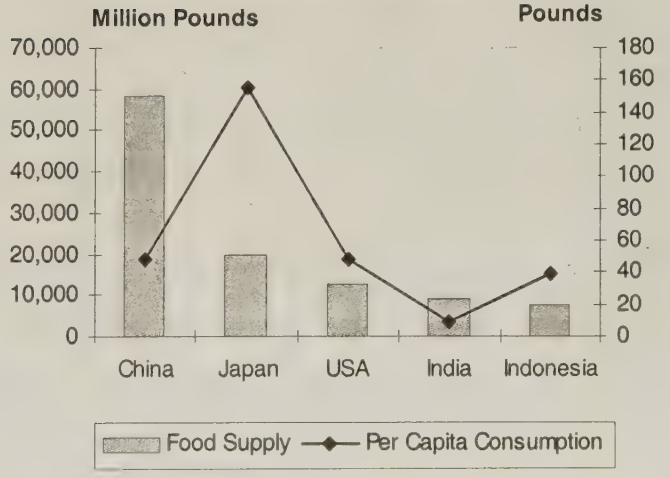
PER CAPITA USE. Per capita use is based on the supply of fishery products, both edible and non-edible (industrial), on a round-weight equivalent basis without considering beginning or ending stocks, defense purchases, or exports. The per capita use of all edible and industrial fishery products in 1998 was 62.5 pounds, down 1.4 pounds compared with 1997.

WORLD CONSUMPTION. The FAO calculation for apparent consumption is based on a disappearance model. The three year average considers, on a round weight equivalent basis, a countries landings, imports, and exports. The 1994-96 data indicates that the United States ranks as the third largest consumer of seafood in the world.

U.S. Consumption 1989 - 1998
(Edible Meat Weight)



Fish and Fishery Products, Apparent Consumption Average 1994 - 1996
(Live Weight Equivalent)



U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed domestically-caught and consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1910-98

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	-------Pounds, edible meat-------			
1910	92.2	4.5	2.8	3.9	11.2
1920	106.5	6.3	3.2	2.3	11.8
1930	122.9	5.8	3.4	1.0	10.2
1940	132.1	5.7	4.6	0.7	11.0
1950	150.8	6.3	4.9	0.6	11.8
1960	178.1	5.7	4.0	0.6	10.3
1970	201.9	6.9	4.5	0.4	11.8
1980	225.6	7.9	4.3	0.3	12.5
1981	227.8	7.8	4.6	0.3	12.7
1982	230.0	7.9	4.3	0.3	12.5
1983	232.1	8.4	4.7	0.3	13.4
1984	234.1	9.0	4.9	0.3	14.2
1985	236.2	9.8	5.0	0.3	15.1
1986	238.4	9.8	5.4	0.3	15.5
1987	240.6	10.7	5.2	0.3	16.2
1988	242.8	10.0	4.9	0.3	15.2
1989	245.1	10.2	5.1	0.3	15.6
1990	247.8	9.6	5.1	0.3	15.0
1991	250.5	9.7	4.9	0.3	14.9
1992	253.5	9.9	4.6	0.3	14.8
1993	256.4	10.2	4.5	0.3	15.0
1994	259.2	10.4	4.5	0.3	15.2
1995	261.4	10.0	4.7	0.3	15.0
1996	264.0	10.0	4.5	0.3	14.8
1997	266.4	9.9	4.4	0.3	14.6
1998	269.1	10.2	4.4	0.3	14.9

(1) Resident population for 1910 and 1920 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption for 1910 and 1920 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

(3) Canned fish consumption for 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 and 1920 is estimated.

*Record years: Fresh and Frozen--10.7 lb, 1987; Canned--5.8, 1936; Cured--4.0, 1909; and Total--16.2 lb, 1987.

PER CAPITA

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1980-98

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1980	0.5	0.3	3.0	0.4	0.1	4.3
1981	0.5	0.4	3.0	0.4	0.3	4.6
1982	0.5	0.3	2.8	0.4	0.3	4.3
1983	0.5	0.2	3.2	0.4	0.4	4.7
1984	0.6	0.2	3.2	0.4	0.5	4.9
1985	0.5	0.3	3.3	0.5	0.4	5.0
1986	0.5	0.3	3.6	0.5	0.5	5.4
1987	0.4	0.3	3.5	0.5	0.5	5.2
1988	0.3	0.3	3.6	0.4	0.3	4.9
1989	0.3	0.3	3.9	0.4	0.2	5.1
1990	0.4	0.3	3.7	0.3	0.4	5.1
1991	0.5	0.2	3.6	0.4	0.2	4.9
1992	0.5	0.2	3.5	0.3	0.1	4.6
1993	0.4	0.2	3.5	0.3	0.1	4.5
1994	0.4	0.2	3.3	0.3	0.3	4.5
1995	0.5	0.2	3.4	0.3	0.3	4.7
1996	0.5	0.2	3.2	0.3	0.3	4.5
1997	0.4	0.2	3.1	0.3	0.4	4.4
1998	0.3	0.2	3.4	0.3	0.2	4.4

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1980-98

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all preparation
	Pounds (2)		
1980	2.4	2.0	1.4
1981	2.4	1.8	1.5
1982	2.5	1.7	1.5
1983	2.7	1.8	1.7
1984	3.0	1.8	1.9
1985	3.2	1.8	2.0
1986	3.4	1.8	2.2
1987	* 3.6	1.7	2.4
1988	3.2	1.5	2.4
1989	3.1	1.5	2.3
1990	3.1	1.5	2.2
1991	3.0	1.2	2.4
1992	2.9	0.9	2.5
1993	2.9	1.0	2.5
1994	3.1	0.9	2.6
1995	2.9	1.2	2.5
1996	3.0	1.0	2.5
1997	3.0	1.0	2.7
1998	3.2	0.9	* 2.8

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from whicl sticks and portions could be produced.

(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.

*Record.

PER CAPITA
WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1994-96 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	22.1	48.7
Greenland	87.1	192.0
St. Pierre and Miquelon	50.5	111.3
United States	21.6	47.6
Caribbean:		
Antigua	25.8	56.9
Aruba	7.8	17.2
Bahamas	22.6	49.8
Barbados	27.9	61.5
Bermuda	39.9	88.0
Cayman Islands	34.1	75.2
Cuba	11.6	25.6
Dominica	28.9	63.7
Dominican Republic	8.2	18.1
Grenada	24.2	53.4
Guadeloupe	46.5	102.5
Haiti	2.6	5.7
Jamaica	19.6	43.2
Martinique	46.9	103.4
Netherland Antilles	17.2	37.9
Saint Lucia	18.8	41.4
St. Vincent	14.8	32.6
Trinidad-Tobago	11.4	25.1
Turks & Caicos	41.2	90.8
Latin America:		
Argentina	9.2	20.3
Belize	6.6	14.6
Bolivia	1.4	3.1
Brazil	7.1	15.7
Chile	24.0	52.9
Colombia	3.8	8.4
Costa Rica	6.1	13.4
Ecuador	7.0	15.4
El Salvador	2.5	5.5
French Guiana	36.1	79.6
Guatemala	1.0	2.2
Guyana	48.5	106.9
Honduras	2.4	5.3
Mexico	10.3	22.7
Nicaragua	1.2	2.6
Panama	15.9	35.1
Paraguay	4.4	9.7
Peru	23.5	51.8
Suriname	28.8	63.5
Uruguay	7.0	15.4
Venezuela	19.3	42.5
Europe:		
Albania	1.3	2.9
Armenia	1.1	2.4
Austria	10.3	22.7
Azerbaijan	1.6	3.5
Belarus	1.1	2.4
Belgium and Luxembourg	19.5	43.0
Europe - Continued:		
Bosnia-Hercegovina	1.3	2.9
Bulgaria	3.4	7.5
Croatia	3.1	6.8
Czech Republic	8.9	19.6
Denmark	23.7	52.2
Estonia	34.4	75.8
Faeroe Island	85.7	188.9
Finland	32.7	72.1
France	28.7	63.3
Georgia	1.2	2.6
Germany	12.9	28.4
Greece	25.1	55.3
Hungary	3.9	8.6
Iceland	91.0	200.6
Ireland	19.2	42.3
Italy	21.6	47.6
Kazakhstan	2.5	5.5
Kyrgyzstan	0.2	0.4
Latvia	29.4	64.8
Lithuania	22.2	48.9
Macedonia	4.3	9.5
Malta	24.2	53.4
Moldova	1.7	3.7
Netherlands	14.2	31.3
Norway	48.5	106.9
Poland	14.6	32.2
Portugal	59.7	131.6
Romania	2.5	5.5
Russian Federation	16.1	35.5
Slovakia	7.7	17.0
Slovenia	6.7	14.8
Spain	36.7	80.9
Sweden	28.3	62.4
Switzerland	13.8	30.4
Tajikistan	0.2	0.4
Turkmenistan	2.8	6.2
Ukraine	5.3	11.7
United Kingdom	19.1	42.1
Uzbekistan	0.6	1.3
Yugoslavia	1.5	3.3
Near East:		
Afghanistan	0.1	0.2
Bahrain	16.5	36.4
Cyprus	21.6	47.6
Egypt	7.3	16.1
Iran	5.4	11.9
Iraq	1.1	2.4
Israel	21.3	47.0
Jordan	4.7	10.4
Kuwait	12.6	27.8
Lebanon	5.3	11.7
Libya	6.3	13.9
Oman	23.6	52.0
Qatar	14.1	31.1
Saudi Arabia	6.0	13.2
Sudan	1.7	3.7
Syria	0.8	1.8
Turkey	8.9	19.6
United Arab Emirates	25.2	55.6
Yemen Republic	6.8	15.0

See note at end of table.

(Continued on next page)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1994-96 AVERAGE

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Far East:		
Bangladesh	9.3	20.5
Brunei	28.8	63.5
Burma	16.6	36.6
Cambodia	9.2	20.3
China	22.0	48.5
Hong Kong	56.8	125.2
India	4.4	9.7
Indonesia	17.6	38.8
Japan	70.7	155.9
Laos	8.9	19.6
Macao	38.8	85.5
Maldives	175.5	386.9
Malaysia	54.6	60.6
Mongolia	0.1	0.2
Nepal	1.0	2.2
North Korea	19.5	43.0
Pakistan	2.0	4.4
Philippines	33.0	72.8
Singapore	31.2	68.8
South Korea	51.6	113.8
Sri Lanka	17.2	37.9
Taiwan	35.8	78.9
Thailand	31.4	69.2
Vietnam	12.5	27.6
Africa:		
Algeria	4.3	9.5
Angola	7.8	17.2
Benin	9.4	20.7
Botswana	5.1	11.2
Burkina	1.3	2.9
Burundi	3.6	7.9
Cameroon	8.7	19.2
Cape Verde	17.9	39.5
Central African Rep	4.2	9.3
Chad	6.0	13.2
Comoros	23.0	50.7
Congo (Brazzaville)	23.6	52.0
Congo (Kinshasa)	5.7	12.6
Djibouti	1.6	3.5
Equatorial Guinea	22.6	49.8
Eritrea	1.1	2.4
Ethiopia	0.1	0.2
Gabon	43.0	94.8
Gambia	17.8	39.2
Ghana	18.7	41.2
Guinea	10.0	22.0
Guinea-Bissau	5.1	11.2

Region and Country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa - Continued:		
Ivory Coast	12.1	26.7
Kenya	5.8	12.8
Lesotho	2.9	6.4
Liberia	4.6	10.1
Madagascar	6.3	13.9
Malawi	5.8	12.8
Mali	11.1	24.5
Mauritania	16.1	35.5
Mauritius	22.5	49.6
Morocco	7.6	16.8
Mozambique	1.7	3.7
Namibia	11.3	24.9
Niger	0.5	1.1
Nigeria	6.4	14.1
Reunion	28.1	61.9
Rwanda	0.7	1.5
Sao Tome	24.2	53.4
Senegal	30.7	67.7
Seychelles	62.8	138.4
Sierra Leone	14.5	32.0
Somalia	1.5	3.3
South Africa	9.3	20.5
St. Helena	74.5	164.2
Swaziland	0.2	0.4
Tanzania	10.6	23.4
Togo	12.9	28.4
Tunisia	9.5	20.9
Uganda	10.0	22.0
Zambia	8.6	19.0
Zimbabwe	3.5	7.7
Oceania:		
Australia	18.7	41.2
Cook Island	61.6	135.8
Fiji	34.9	76.9
French Polynesia	56.6	124.8
Kiribati	74.5	164.2
New Caledonia	20.9	46.1
New Zealand	22.2	48.9
Papua New Guinea	12.7	28.0
Solomon Islands	39.4	86.9
Tonga	31.8	70.1
Vanuatu	27.3	60.2
Western Samoa	39.5	87.1
World	**15.2**	**33.5**

Note:--Data for most countries are tentative. Aquatic plants are included where applicable.

Source:--Food and Agriculture Organization of the United Nations (FAO)

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering the beginning or ending stocks, defense purchases, or exports.

Per capita use figures are not comparable with per capita consumption data. Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITA USE OF COMMERCIAL FISH AND SHELLFISH, 1960-98 (1)

Year	Total population including armed forces overseas July 1	U.S. supply	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978	222.6	11,509	27.1	24.6	51.7
1979	225.1	11,831	27.9	24.7	52.6
1980	227.7	11,357	28.5	21.4	49.9
1981	230.0	11,353	26.0	23.4	49.4
1982	232.2	12,011	27.4	24.3	51.7
1983	234.3	12,352	27.5	25.2	52.7
1984	236.3	12,552	27.3	25.8	53.1
1985	238.5	15,150	26.2	37.3	63.5
1986	240.7	14,368	25.1	34.6	59.7
1987	242.8	15,744	28.4	36.4	64.8
1988	245.0	14,628	29.3	30.4	59.7
1989	247.3	15,485	34.2	28.4	62.6
1990	249.9	16,349	37.6	27.8	65.4
1991	252.7	16,363	37.5	27.3	64.8
1992	255.5	16,106	37.7	25.3	63.0
1993	258.2	20,334	40.6	38.2	78.8
1994	260.7	19,309	40.1	34.0	74.1
1995	263.0	16,484	37.2	25.5	62.7
1996	265.3	16,474	36.1	26.0	62.1
1997	268.2	17,131	36.7	27.2	63.9
1998	270.6	16,897	34.0	28.5	62.5

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a round weight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

SUMMARY OF 1998 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

Sector or type of activity	Purchase of fishery inputs	Mark-up of fishery inputs	Total mark-up within sector	Value added as percent of total mark-up	Value added within sector	Value of sales by sector	Value added contri-bution	Offshore fleet & exported fishery products
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Con-tribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	$2,989,801	62.8	$1,878,654	$2,989,801	7.4	-
Industrial	-	100.0	$103,836	61.2	$63,564	$103,836	0.2	-
Harvest not landed in U.S	-	100.0	$165,888	68.9	$114,322	$165,888	0.4	$165,888
Imports, Unprocessed	$3,625,726	-	-	-	-	$3,625,726	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	$741,084
Primary Wholesale and Processing	$5,978,279	96.9	$5,795,554	60.4	$3,500,499	$11,773,833	13.8	-
Imports, Processed	$4,700,045	-	-	-	-	$4,700,045	-	-
Exports, Processed	-	-	-	-	-	-	-	$1,618,956
Secondary Wholesale and Processing:								
Edible	$14,700,749	62.7	$9,218,854	28.0	$2,585,293	$23,919,603	10.2	-
Industrial	$154,174	62.7	$96,683	28.0	$27,113	$250,856	0.1	-
Retail Trade from Food Service	$11,476,092	182.4	$20,933,093	69.8	$14,603,579	$32,409,185	57.4	-
Retail Trade from Stores	$12,443,510	33.4	$4,158,905	64.2	$2,671,329	$16,602,415	10.5	-
TOTAL U.S. VALUE ADDED ACTIVITY:					**$25,444,353**		**100.0**	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						**$49,262,457**		

(1) Includes industrial products and landings by U.S.-flag vessels at U.S. ports, foreign ports, and transfers to internal water processing vessels.

Note.-- The table reports the contribution of commercial marine fishing to the national economy as measured by margin, value added, and sales. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying purchase price and therefore the entire dockside or exvessel price is considered margin.) Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Gross National Products (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Consumer expenditures are the final retail value of seafood products sold through stores and food service outlets plus secondary wholesale and processing of industrial products.

PRICES

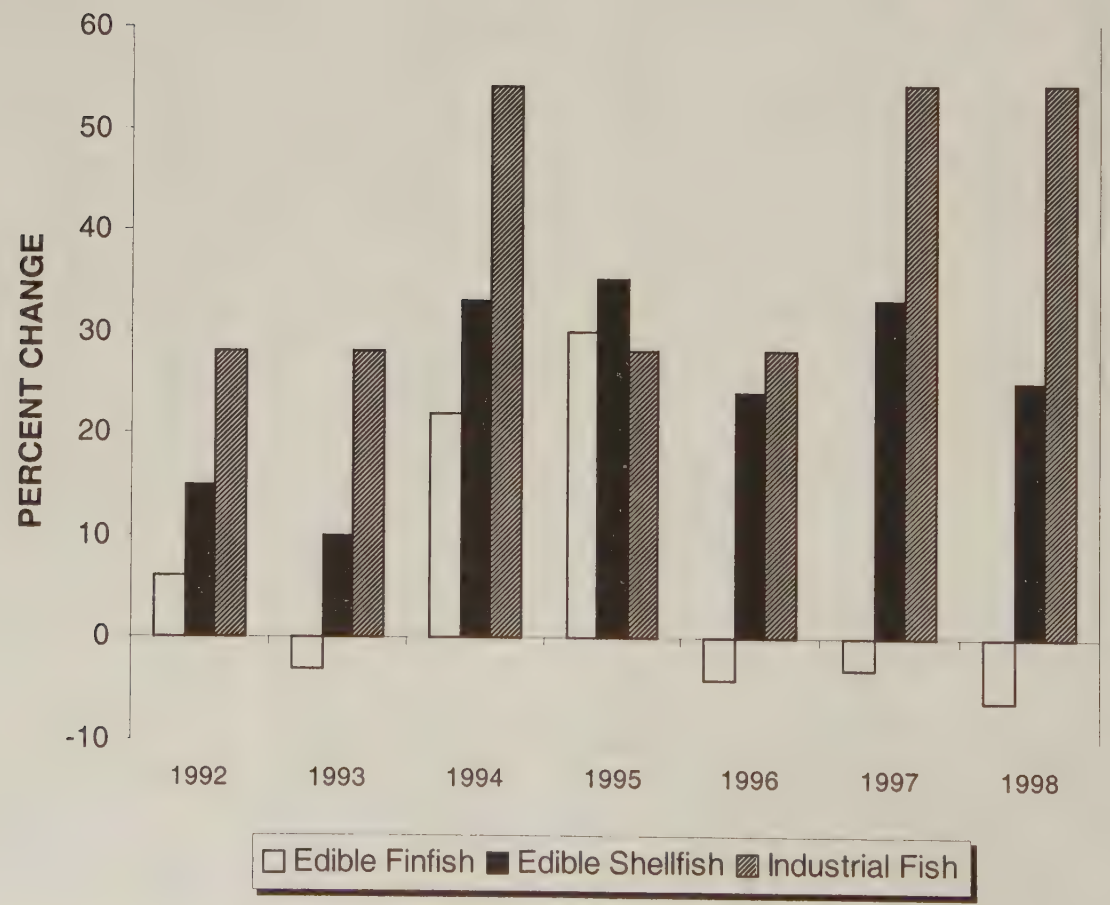
The exvessel Price table is an index of changes in the relative dockside value of fish and shellfish sold by fishing vessels. The table indexes the average annual exvessel value (price per pound) received for each species or group to the average price per pound received for the same species or group in the base year 1982.

The exvessel price for each year was obtained by dividing total value for each species or group by its total quantity as reported in the U. S. commercial landings tables on pages 1 through 4. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1982 (the base year). That number was then divided by the 1982 value to obtain the final index:

$$\frac{\text{(100 x Current price X 1982 quantity)}}{\text{1982 Annual value}} = \text{Index}$$

Each index number measures price changes from the 1982 reference period when the index equaled 100. A species of fish that sold for $0.75 a pound in 1986 and a $1.00 a pound in 1982 would have an index of 75 in 1986. In 1998, if the price of the same species increased to $1.07, the index in 1998 would be 107.

PERCENT CHANGE IN THE EXVESSEL PRICE INDEX, 1992-1998 (CHANGE RELATIVE TO BASE YEAR=1982)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1992-98
(1982=100)

Species	1992 (1)	1993	1994	1995	1996	1997	1998
Groundfish, et al:							
Cod	105	105	92	77	76	84	68
Haddock	219	277	287	277	239	218	253
Pollock:							
Atlantic	297	299	365	412	311	255	294
Alaska	194	194	212	161	160	170	124
Flounders	60	61	80	96	91	63	67
Total groundfish, et al.	**108**	**115**	**125**	**125**	**115**	**100**	**99**
Halibut	91	115	171	173	199	195	165
Sea herring	86	63	86	126	137	63	46
Salmon:							
Chinook	112	81	76	76	63	70	64
Chum	112	95	58	66	36	49	39
Pink	69	59	73	67	38	52	61
Sockeye	136	80	101	100	94	103	131
Coho	84	74	76	54	48	70	54
Total salmon	**113**	**78**	**85**	**82**	**69**	**81**	**90**
Swordfish	111	92	107	104	103	91	70
Tuna:							
Albacore	147	132	125	120	130	124	99
Bluefin	477	766	666	954	229	353	295
Skipjack	72	85	127	83	82	93	79
Yellowfin	96	112	205	283	113	126	100
Total tuna	**97**	**117**	**181**	**212**	**105**	**118**	**96**
Total edible finfish	**106**	**97**	**122**	**130**	**96**	**97**	**94**
Clams:							
Hard	135	113	105	113	148	163	174
Ocean Quahog	124	128	129	136	142	145	148
Soft	222	233	248	250	205	236	238
Surf	83	88	118	118	115	116	103
Total clams	**133**	**126**	**133**	**138**	**147**	**159**	**161**
Crabs:							
Blue	183	201	260	284	266	271	271
Dungeness	124	95	145	176	143	210	192
King	139	127	146	104	100	94	80
Snow	60	78	144	237	130	76	54
Total crabs	**124**	**123**	**166**	**182**	**144**	**135**	**121**
American lobster	125	117	128	141	147	138	138
Oysters	225	183	175	179	214	199	188
Scallops:							
Bay	150	161	49	55	69	111	90
Calico	(2)	(2)	94	124	-	217	(2)
Sea	132	159	138	138	153	179	166
Total scallops	**118**	**141**	**126**	**131**	**129**	**178**	**141**
Shrimp:							
Gulf and South Atlantic	86	80	110	99	88	106	94
Other	113	128	142	179	148	134	331
Total shrimp	**88**	**82**	**111**	**103**	**91**	**107**	**105**
Total edible shellfish	**115**	**110**	**138**	**135**	**124**	**133**	**125**
Total edible fish and shellfish	**111**	**104**	**131**	**133**	**111**	**117**	**111**
Industrial fish, Menhaden	128	128	154	128	128	154	154
All fish and shellfish	**112**	**105**	**132**	**132**	**112**	**119**	**113**

(1) Revised.
(2) Confidential data.

ESTIMATED NUMBER OF COMMERCIAL FISHING VESSELS (1) AND FISHING BOATS (2) BY REGION AND STATE, 1996 - 1997

Area and State	1996			1997		
	Vessels	Boats	Total	Vessels	Boats	Total
Northeast:						
Connecticut	168	409	577	225	377	602
Delaware	161	NA	161	175	NA	175
Maine	1,773	5,454	7,227	1,733	5,828	7,561
Maryland (3)	33	NA	33	33	NA	33
Massachusetts	790	4,525	5,315	737	4,510	5,247
New Hampshire	132	474	606	128	483	611
New Jersey	360	1,167	1,527	420	1,181	1,601
New York (4)	693	2,936	3,629	689	2,541	3,230
Rhode Island	299	2,538	2,837	308	2,469	2,777
Virginia (3)	122	NA	122	122	NA	122
South Atlantic and Gulf:						
North Carolina	814	NA	814	835	NA	835
South Carolina	501	NA	501	652	NA	652
Georgia	349	NA	349	351	NA	351
Florida	2,531	9,425	11,956	2,437	6,648	9,085
Alabama	378	720	1,098	359	1,320	1,679
Mississippi	438	874	1,312	591	856	1,447
Louisiana	2,839	11,883	14,722	2,650	10,987	13,637
Texas	NA	NA	NA	NA	NA	NA
West Coast:						
Alaska	7,044	9,295	16,339	7,098	9,344	16,442
Washington	1,909	1,292	3,201	1,071	585	1,656
Oregon	860	389	1,249	732	328	1,060
California	1,767	1,483	3,250	1,700	1,421	3,121
Hawaii	2,636	NA	2,636	2,493	NA	2,493
Great Lakes (5)						
Illinois	5	NA	5	5	NA	5
Indiana	NA	NA	NA	NA	NA	NA
Michigan	61	75	136	61	75	136
Minnesota	1	23	24	1	23	24
New York	3	17	20	1	NA	1
Ohio	30	14	44	28	26	54
Pennsylvania	4	2	6	2	1	3
Wisconsin	106	42	148	97	44	141

(1) Vessels are documented craft greater than 5 net registered tons.
(2) Boats are craft less than 5 net registered tons.
(3) Only Federal collected data are available. Inshore data not available.
(4) Excludes vessels and boats in the Great Lakes.
(5) Commercial fishing fleet sizes for the Great Lakes states represent only the number of licenses issued by the State; therefore, may not be an accurate total. Tribal data are not included in his table.

NA -- Data not available separately.

PROCESSORS AND WHOLESALERS: PLANTS, AND EMPLOYMENT, 1997

Area and State	Processing			Wholesale (1)			Total		
	Plants	Employment average		Plants	Employment average		Plants	Employment average	
		Season	Year		Season	Year		Season	Year
	Number								
New England:									
Maine	54	1,828	1,768	223	(2)	1,516	277	(3)	3,284
New Hampshire	9	303	301	29	(2)	194	38	(3)	495
Massachusetts	73	2,653	2,647	303	(2)	2,473	376	(3)	5,120
Rhode Island	19	389	384	58	(2)	360	77	(3)	744
Connecticut	4	68	68	37	(2)	279	41	(3)	347
Total	**159**	**5,241**	**5,168**	**650**	**(2)**	**4,822**	**809**	**(3)**	**9,990**
Mid-Atlantic:									
New York	10	193	193	340	(2)	2,354	350	(3)	2,547
New Jersey	16	1,079	1,078	138	(2)	909	154	(3)	1,987
Pennsylvania	6	1,015	1,015	60	(2)	742	66	(3)	1,757
Delaware	(4)	(4)	(4)	(4)	(2)	(4)	(4)	(3)	(4)
District of Columbia	-	-	-	6	(2)	87	6	(3)	87
Maryland	36	1,349	1,234	90	(2)	778	126	(3)	2,012
Virginia	45	1,858	1,828	87	(2)	603	132	(3)	2,431
Total	**113**	**5,494**	**5,348**	**721**	**(2)**	**5,473**	**834**	**(3)**	**10,821**
South Atlantic:									
North Carolina	52	1,454	1,451	100	(2)	893	152	(3)	2,344
South Carolina	12	193	191	27	(2)	206	39	(3)	397
Georgia	10	1,149	1,149	56	(2)	534	66	(3)	1,683
Florida, East Coast	28	816	816	(5)	(2)	(5)	28	(3)	816
Total	**102**	**3,612**	**3,607**	**183**	**(2)**	**1,633**	**285**	**(3)**	**5,240**
Gulf:									
Florida, West Coast	91	2,202	2,192	369	(2)	3,145	460	(3)	5,337
Alabama	84	1,493	1,416	55	(2)	867	139	(3)	2,283
Mississippi	38	916	913	36	(2)	249	74	(3)	1,162
Louisiana	136	3,439	2,998	163	(2)	1,201	299	(3)	4,199
Texas	30	1,356	1,333	117	(2)	1,265	147	(3)	2,598
Total	**379**	**9,406**	**8,852**	**740**	**(2)**	**6,727**	**1,119**	**(3)**	**15,579**
Pacific:									
Alaska	201	9,875	7,652	213	(2)	*336*	414	(3)	7,988
Washington	96	5,292	3,927	198	(2)	1,711	294	(3)	5,638
Oregon	40	1,466	1,464	23	(2)	322	63	(3)	1,786
California	141	6,975	6,974	393	(2)	4,791	534	(3)	11,765
Total	**478**	**23,608**	**20,017**	**827**	**(2)**	**7,160**	**1,305**	**(3)**	**27,177**
Inland States, Total	**38**	**1,742**	**1,730**	**343**	**(2)**	**3,642**	**381**	**(3)**	**5,372**
Other Areas or States: (6), Total	*28*	*8,976*	**8,976**	*56*	(2)	623	**84**	**(3)**	**8,976**
Grand total	**1,297**	**58,079**	**53,698**	**3,520**	**(2)**	**29,457**	**4,817**	**(3)**	**83,155**

(1) Data are based on Standard Industrial Classification 5146 as reported to the Bureau of Labor Statistics.

(2) Not reported. (3) Can not be calculated. (4) Included with Inland States. (5) Included with Florida, West Coast.

(6) Includes American Samoa, Hawaii, and Puerto Rico.

FISHERY PRODUCTS AND ESTABLISHMENTS INSPECTED IN CALENDAR YEAR, 1998

Region	Edible fishery products						
	Establishment (1)		Amount inspected				
	SIFE (2)	In-plant (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	-Average number-		Thousand pounds				
Northeast	0	105	30,096	176,476	85,543	100,899	393,015
Southeast	0	122	17,491	85,815	56,565	104,518	264,389
West	8	63	22,751	38,858	47,489	114,231	223,328
Total, 1998	**8**	**289**	**70,338**	**301,149**	**189,597**	**319,648**	**880,733**
Total, 1997	**16**	**318**	**64,795**	**373,431**	**179,891**	**310,699**	**928,816**

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection. As of December 1998, 89 of these were in the Hazard Analysis Critical Control Point (HACCP) Program.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Processed Under Federal Inspection" (PUFI) and/or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

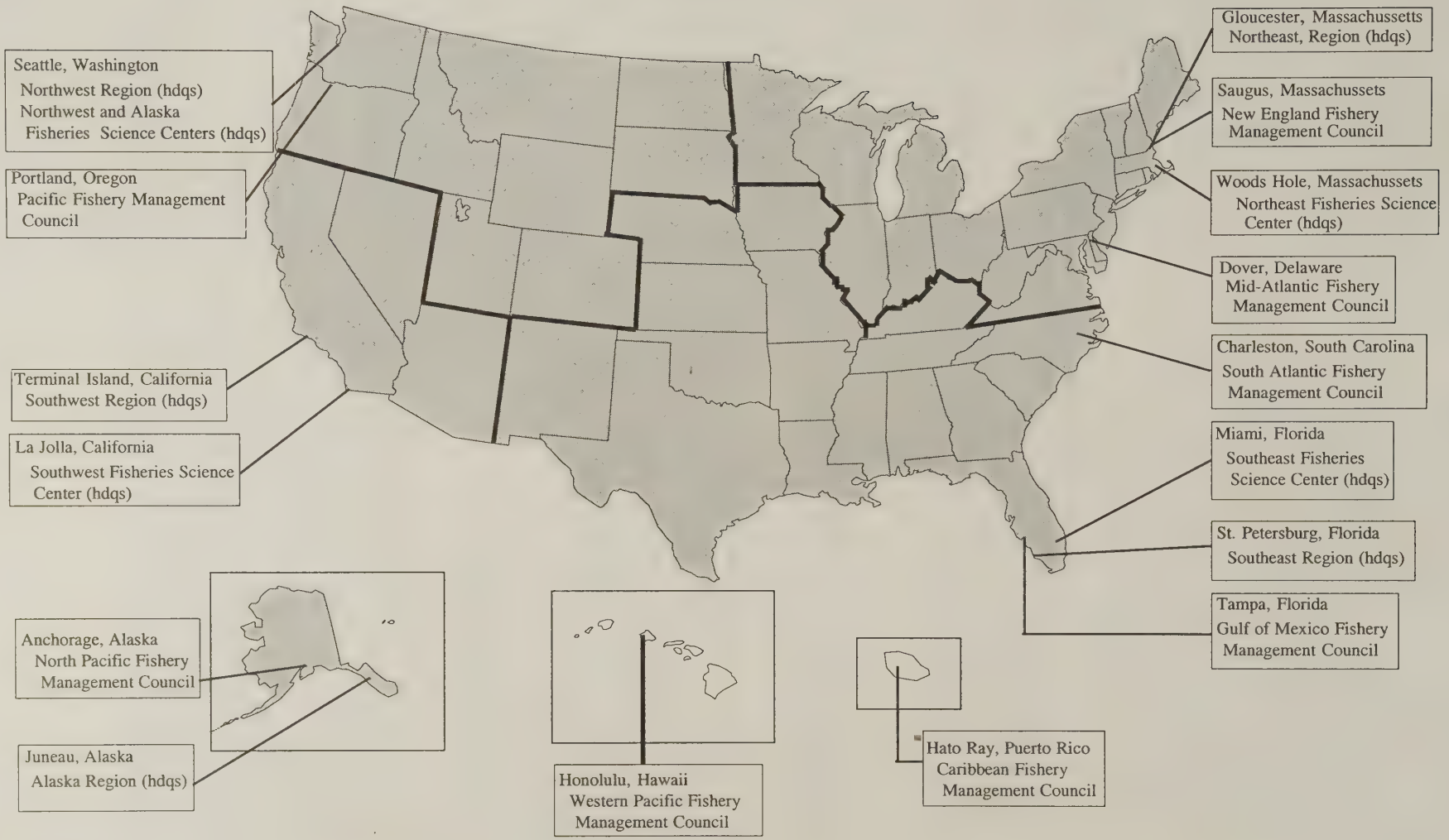
(6) Lot inspected and marked products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Seafood Inspection Division, F/SI.

NMFS Regional Offices
NMFS Fisheries Science Centers
Regional Fishery Management Councils

Headquarters Locations



THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson-Stevens Fishery Conservation and Management Act, Public Law 94-265 as amended (Magnuson-Stevens Act), provides for the conservation and management of fishery resources within the U.S. Exclusive Economic Zone (EEZ). It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson-Stevens Act, the Secretary of State, in cooperation with the Secretary of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign nations requesting to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for ratification.

FOREIGN FISHING PERMITS

Title II of the Magnuson-Stevens Act governs foreign fishing in the EEZ. The process applied to foreign fishing has been described in prior issues of this publication. As U.S. fishing capacity grew, foreign participation in directed fisheries, as well as in foreign joint ventures in which U.S. vessels delivered U.S. harvested fish to permitted foreign vessels in the EEZ diminished until, in 1991, foreign vessels no longer were permitted to conduct directed fishing in the EEZ. This marked the achievement of one of the objectives of the Magnuson-Stevens Act, that is, the development of the U.S. fishing industry to take what were in 1976 underutilized species, and the displacement of directed foreign fishing effort in the EEZ.

As a result of the above, there has been no total allowable level of foreign fishing since 1991, although 15,000 mt of Atlantic mackerel and 40,000 mt of Atlantic herring were available for joint venture fishing in 1998. NMFS continues to maintain certain regulations pertaining to foreign fishing should there be a situation in the future in which allowing limited foreign fishing in an underutilized fishery would be of advantage to the U.S. fishing industry.

FMPs and PMPs

Under the Magnuson-Stevens Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils prepare FMPs that cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce (Secretary) for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary is empowered to prepare FMPs in the Atlantic and Gulf of Mexico for highly migratory species. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's FMP covers domestic and foreign fishing.

As of December 31, 1998, three Preliminary Fishery Management Plans (PMPs) were in effect, some of which have been amended since first being implemented.

The Atlantic swordfish, Atlantic sharks, and Atlantic billfish fisheries are currently being managed by the Secretary under the Magnuson-Stevens Act

and the Western Atlantic bluefin tuna fishery is managed under the Magnuson-Stevens Act and the Atlantic Tunas Convention Act.

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson-Stevens Act, all Council-prepared FMPs must be reviewed for approval by the Secretary. After FMPs have been approved under section 304 of the Magnuson-Stevens Act, they are implemented by Federal regulations, under section 305 of the Act. As of December 31, 1998, there are 39 FMPs in place. Of these, three are Secretarial FMPs for Atlantic highly migratory species. The 36 FMPs the Councils prepared are listed below. The FMPs are amended by the Councils and the amendments are submitted for approval under the same Secretarial review process as new FMPs. Most of the FMPs listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1998.

Northeast Multispecies
American Lobster
Atlantic Bluefish
Atlantic Coast Red Drum
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon
Atlantic Sea Scallops
Atlantic Surf Clams and Ocean Quahogs (**)
Summer Flounder, Scup, and Black Sea Bass
Gulf and South Atlantic Spiny Lobster
Caribbean Reef Fish
Gulf of Mexico Reef Fish
Gulf of Mexico Corals
South Atlantic Corals
South Atlantic Golden Crab
Caribbean Coral Reef Resources
Gulf of Mexico Shrimp
Gulf of Mexico Stone Crab (**)
Gulf of Mexico Red Drum
Coastal Migratory Pelagics
Caribbean Queen Conch
Caribbean Spiny Lobster
South Atlantic Snapper/Grouper (**)
South Atlantic Shrimp
Northern Anchovy
King and Tanner Crab
Commercial and Recreational Salmon
High Seas Salmon
Pacific Coast Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Alaska Scallops (**)
Western Pacific Crustaceans
Western Pacific Precious Corals (**)
Western Pacific Bottomfish and Seamount Groundfish
Western Pacific Pelagics

In 1998, NMFS published 869 documents in the Federal Register which affected domestic fishing issues and either proposed or implemented fishery management actions (i.e., FMP and amendments). The documents published include hearing, meeting, correction, and proposed and final rule documents.

THE MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT

REGIONAL FISHERY MANAGEMENT COUNCILS

Councils	Constituent States	Telephone Number	Executive Directors and Addresses
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	781-231-0422 FAX: 617-565-8937	Paul J. Howard Suntaug Office Park 5 Broadway (Rt. 1) Saugus, MA 0l906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, Virginia, and North Carolina)	302-674-2331 FAX: 674-5399	Daniel T. Furlong Federal Bldg., Rm. 2115 300 South New St. Dover, DE 19904
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia and Florida)	843-571-4366 FAX: 769-4520	Robert K. Mahood 1 Southpark Circle Suite 306 Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana Mississippi, Alabama, and Florida)	843-228-2815 FAX: 225-7015	Wayne E. Swingle 3018 U.S. Highway 301 North, Suite 1000 Tampa, FL 33619
CARIBBEAN	(U.S. Virgin Islands and Commonwealth of Puerto Rico)	787-766-5926 FAX: 766-6239	Miquel A. Rolon 268 Ave. Munoz Rivera Suite 1108 San Juan, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-326-6352 FAX: 326-6831	Lawrence D. Six 2130 S.W. 5th Ave. Suite 224 Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809 FAX: 271-2817	Clarence G. Pautzke 605 W. 4th Ave. Room 306 Anchorage, AK 99501
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and Commonwealth of the Northern Mariana Islands)	808-522-8220 FAX: 522-8226	Kitty M. Simonds 1164 Bishop St. Suite 1400 Honolulu, HI 96813

OPTIMUM YIELD (OY) AND OTHER SPECIFICATIONS, INCLUDING AMOUNTS AVAILABLE FOR JOINT VENTURE PROCESSING: NORTH ATLANTIC, BY SPECIES, 1998 (1)

Item	Loligo squid	Illex squid	Atlantic mackerel	Butter-fish	Atlantic herring
	Metric tons, round weight				
Maximum OY	(2) 26,000	(2) 24,000	(3)	(2) 16,000	(4) 89,000
ABC	21,000	19,000	382,000	7,200	89,220
Initial OY	21,000	19,000	(5) 80,000	5,900	89,220
DAH	21,000	19,000	(6) 80,000	5,900	89,220
DAP	21,000	19,000	50,000	5,900	49,220
JVP	0	0	15,000	0	40,000
TALFF	0	0	0	0	0

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; and TALFF=Total Allowable Level of Foreign Fishing.

(2) Maximum OY based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(3) Not applicable based on the Fishery Management Plan for Atlantic mackerel, squid and butterfish.

(4) Maximum OY based on the Preliminary Fishery Management Plan for Atlantic Herring.

(5) Initial OY can increase during the year, but the total cannot exceed 382,000 metric tons.

(6) Includes 15,000 metric tons of Atlantic mackerel recreational allocation.

Source:--NMFS, Office of Sustainable Fisheries, F/SF; and NMFS, Northeast Region, F/NER.

UNITED STATES DEPARTMENT OF COMMERCE

14th and Constitution Ave., NW
Washington, DC 20230

MAIL ROUTING CODE		TELEPHONE NUMBER
--	**Secretary of Commerce** William Daley	202-482-2112
A	**Under Secretary for Oceans and Atmospheric** D. James Baker	202-482-3436

NATIONAL MARINE FISHERIES SERVICE

1315 East-West Highway
Silver Spring Metro Center #3 (SSMC)
Silver Spring, MD 20910

F	**Assistant Administrator for Fisheries --** Penelope D. Dalton	301-713-2239
	Deputy Assistant Administrator for Fisheries -- Andrew A. Rosenberg	301-713-2239
Fx1	**Staff Office for Industry and Trade --** Linda Chaves	301-713-2379
Fx2	**Staff Office for Intergovernmental and Recreational Fisheries --** Richard Schaefer	301-427-2401
Fx3	**Equal Employment Opportunity --** Carolyn Stiles	301-713-2252
F/SI	**Seafood Inspection Program --** Samuel W. McKeen	301-713-2351
F/EN	**Office of Law Enforcement --** Dale Jones	301-427-2300
F/EN1	Enforcement Operations Division	301-427-2300
F/EN11	Enforcement Programs Branch	301-427-2300
F/HC	**Office of Habitat Conservation --** Andrew Kemmerer	301-713-2325
F/HCx1	Chesapeake Bay Program Office	410-267-5660
F/HC1	Watershed Division	301-713-2325
F/HC2	Habitat Protection Division	301-713-2325
F/HC3	Habitat Restoration Division	301-713-0174

(CONTINUED)

GENERAL ADMINISTRATIVE INFORMATION

UNITED STATES DEPARTMENT OF COMMERCE

Silver Spring, Md. 20910

MAIL ROUTING CODE		TELEPHONE NUMBER
F/OMI	**Office of Operations, Management & Information --** Lois Gajdys	301-713-2239
F/OMI1	Administrative & Budget Processes Division	301-713-2245
F/OMI2	Planning and Development Division	301-713-2252
F/OMI3	Information Management Division	301-713-2372
F/PR	**Office of Protected Resources --** Vacant	301-713-2332
F/PRx1	Marine Biodiversity Team	301-713-2319
F/PR1	Permits and Documentation Division	301-713-2289
F/PR2	Marine Mammal Conservation Division	301-713-2322
F/PR3	Endangered Species Division	301-713-1401
F/SF	**Office of Sustainable Fisheries --** Gary Matlock	301-713-2334
F/SF1	Highly Migratory Species Division	301-713-2347
F/SF2	Financial Services Division	301-713-2390
F/SF3	Domestic Fisheries Division	301-713-2341
F/SF4	International Fisheries Division	301-713-2276
F/SF5	Regulatory Services Division	301-713-2355
F/SF6	National Seafood Laboratory	301-713-2334
F/ST	**Office of Science and Technology --** William Fox	301-713-2367
F/ST1	Fisheries Statistics & Economics Division	301-713-2328
F/ST2	Research Analysis and Coordination Division	301-713-2363
F/ST21	Scientific Publications Unit	206-526-6107
F/ST3	International Science Coordination and Analysis Division	301-713-2288
LA11	**Office of Congressional Affairs - Fisheries --** Peter Hill	301-713-2263
PAF	**Office of Public Affairs - Fisheries --** Scott Smullen / Gordon Helms	301-713-2370
GCF	**Office of General Counsel - Fisheries --** Margaret Hayes	301-713-2231

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

MAIL ROUTING CODE	OFFICE	TELEPHONE and FAX NUMBER	LOCATION
F/NER	**Northeast Region** **One Blackburn Drive** **Gloucester, MA 01930**	**978-281-9300** **Fax-281-9371**	**Gloucester, MA**
F/NEC3	Northeast Fisheries Science Center 166 Water St. - Rm. 312 Woods Hole, MA 02543	508-495-2233 Fax-548-5124	Woods Hole, MA
	Woods Hole Laboratory 166 Water St. Woods Hole, MA 02543	508-495-5123 Fax-495-2258	Woods Hole, MA
	Narragansett Laboratory 28 Tarwell Drive Narragansett, RI 02882	401-782-3200 Fax-782-3201	Narragansett, RI
	Milford Laboratory Milford, CT 06460	860-873-4200 FAX-873-4212	Milford, CT
	Sandy Hook Laboratory Building 74, McGruder Highlands, NJ 07732	732-872-3000 FAX-872-3088	Highlands, NJ
	Oxford Laboratory 904 S. Morris St. Oxford, MD 21654	410-226-5193 FAX-226-5925	Oxford, MD
F/NESC3	Natl. Systematics Laboratory, MRC153 10th & Constitution Ave., NW Washington, DC 20560	202-357-2550 FAX-357-2986	Washington, DC
F/SER	**Southeast Region** **9721 Executive Center Drive, N.** **St. Petersburg, FL 33702**	**727-570-5301** **FAX-570-5300**	**St. Petersburg, FL**
F/SEFSC	Southeast Fisheries Science Center 75 Virginia Beach Dr. Miami, FL 33149	305-361-4284 FAX-361-4219	Miami, FL
F/SEC4	Miami Laboratory 75 Virginia Beach Dr. Miami, FL 33149	305-361-4225 FAX-361-4499	Miami, FL
F/SEC5	Mississippi Laboratories 3209 Frederick St., P.O. Drawer 1207 Pascagula, MS 39567	228-762-4591 FAX-769-9200	Pascagoula, MS
F/SEC6	Panama City Laboratory 3500 Delwood Beach Rd. Panama City, FL 32408	850-234-6541 FAX-235-3559	Panama City, FL
F/SEC7	Galveston Laboratory 4700 Avenue U Galveston, TX 77551	409-766-3500 FAX-766-3508	Galveston, TX
F/SEC8	Charleston Laboratory 219 Fort Johnson Rd. Charleston, SC 29412	803-762-8500 FAX-762-8700	Charleston, SC

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES

MAIL ROUTING CODE	OFFICE	TELEPHONE and FAX NUMBER	LOCATION
F/SEC9	Beaufort Laboratory 101 Pivers Island Beaufort, NC 28516	919-728-3595 FAX-728-8784	Beaufort, NC
F/NWR	**Northwest Region** **7600 Sand Point Way, N.E.** **BIN C15700, Bldg. 1** **Seattle, WA 98115**	**206-526-6150** **FAX-526-6426**	**Seattle, WA**
F/NWC	Northwest Fisheries Science Center West Bldg. - Rm. 363 2725 Montlake Boulevard, East Seattle, WA 98112	206-860-3200 FAX-860-3217	Seattle, WA
F/SW	**Southwest Region** **501 West Ocean Blvd., Suite 4200** **Long Beach, CA 90802**	**562-980-4000** **FAX-980-4018**	**Long Beach, CA**
F/SWFSC	Southwest Fisheries Science Center 8604 La Jolla Shores Dr. P.O. Box 271 La Jolla, CA 92038	619-546-7000 FAX-546-5655	La Jolla, CA
F/SWC2	Honolulu Laboratory 2570 Dole Street, Rm. 106 Honolulu, HI 96822	808-983-5300 FAX-943-1248	Honolulu, HI
	Pacific Islands Area Office 1601 Kapiolani Blvd., Rm. 1110 Honolulu, HI 96814	808-973-2937 FAX-983-2900	Honolulu, HI
F/SWC3	Tiburon Laboratory 3150 Paradise Dr. Tiburon, CA 94920	415-435-3149 FAX-435-3675	Tiburon, CA
F/SWC4	Pacific Fisheries Environmental Group 1352 Lighthouse Ave. Pacific Grove, CA 93950	408-648-8515 FAX-648-8440	Pacific Grove, CA
F/AKR	**Alaska Region** **709 West 9th Street, Room 453** **P.O. Box 21668** **Juneau, AK 99802**	**907-586-7221** **FAX-586-7249**	**Juneau, AK**
F/AKC	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700 - Bldg. #4 - Rm. 2149 Seattle, WA 98115	206-526-4000 FAX-526-4004	Seattle, WA
	Kodiak Laboratory Kodiak Fishery Research Center 301 Research Court Kodiak, AK 99615	907-481-1700 FAX-481-1701	Kodiak, AK
F/AKC4	Auke Bay Laboratory 11305 Glacier Highway Auke Bay, AK 99801	907-789-6000 FAX-789-6094	Auke Bay, AK

GENERAL ADMINISTRATIVE INFORMATION

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
		NORTHEAST REGION
NEW ENGLAND:		
(1) Portland	**207-780-3322 FAX:780-3340**	**Robert C. Morrill / Scott McNamara / Jessica Holton, Marine Trade Center, Suite 212, Two Portland Fish Pier, Portland, ME 04101**
Rockland	207-594-5969 FAX:596-7651	Peter P. Marckoon, Federal Bldg., 21 Limerock St., Rm. 217, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015 FAX:223-8526	Paul Sheahan, Statistics Office, 408 Atlantic Ave., Rm. 141, Boston, MA 0221
	617-223-8012 FAX:223-8526	Jack French, Boston Market News, 408 Atlantic Ave., Rm. 141, Boston, MA 02210
(1) Gloucester	**978-281-9304 FAX:281-9161**	**Gregory R. Power, Fishery Inf. Section, One Blackburn Dr., Gloucester, MA 01930**
Gloucester	978-281-9363 FAX:281-9372	Don Mason / William Heiskel1, Rm. 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452 FAX:990-2506	Dennis E. Main / Sarah Pike, U.S. Custom House, 37 N. Second St., New Bedford, MA 0274
Chatham	508-945-5961 FAX:945-3793	Lorraine Spenle, 29C Stage Harbor Road Chatham, MA 02633
Woods Hole	508-495-2000 FAX:548-2258	John Mahoney, Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543
Newport	401-847-3115 FAX:842-0980	Margaret Toner, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797 FAX:782-2113	Walter Anoushian, 83 State St., 2nd floor, P.O. Box 547, Narragansett, RI 02882
MIDDLE ATLANTIC AND CHESAPEAKE:		
New York	212-620-3405 FAX:620-3577	Leo Gaudin / R. Santangello, New York Market News, 201 Varick St., Rm. 731, New York, NY 10014
East Hampton	516-324-3569 FAX:324-3314	Erik Braun, 62 Newtown Lane, Suite 203, East Hampton, NY 11937
Patchogue	516-475-6988 FAX:289-8361	David McKernan, Social Security Bldg., 50 Maple Ave., P.O.Box 606, Patchoque, L.I., NY 11772
(1) Toms River	**732-349-3533 FAX:349-4319**	**Eugene Steady / Joanne Pellegrino, 26 Main St., P.O. Box 143, Toms River, NJ 08754**
Cape May	609-884-2113 FAX:884-4908	Walt Makowski, 1382 Lafayette St., P.O. Box 624, Cape May, NJ 08204
Sandy Hook	908-872-3133 908-872-3068	Kathy Carbo, 74 Magruder Rd., Highlands, NJ 07732
Ocean City	410-213-2761 FAX:213-7029	Ingo Fleming, 12904 Kelly Bridge Rd., P.O. Box 474, Ocean City, MD 21842
Hampton	757-723-3369 FAX:728-3947	David Ulmer / Steve Ellis / George Mattingly, 1926 Settlers Landing Rd., Suite F, P.O. Box 436, Hampton, VA 23669
		SOUTHEAST REGION
SOUTH ATLANTIC AND GULF:		
(1)Beaufort	**252-728-8720 FAX:728-8772**	**Nelson Johnson, Beaufort Laboratory, 101 Piver Island Rd., Beaufort, NC 28516**
New Smyrna Beach	904-427-6562 FAX: SAME	Claudia Dennis, Coast Guard Station/Ponce, P.O. Box 2025, New Smynra Beach, FL 32170
Tequesta	561-575-4461 FAX:361-4565	H.Charles Schaefer / Michelle Gamby, 19100 S.E. Fedl. Highway, Tequesta, FL 33469
(1)Miami	**305-361-4468 FAX:361-4460**	**Guy S. Davenport / Pam Brown-Eyo, 75 Virginia Beach Dr., Miami, FL 33149**

(Continued)

NATIONAL MARINE FISHERIES SERVICE
NATIONAL FISHERY STATISTICS OFFICES

CITY	TELEPHONE NUMBER	NAME AND ADDRESS
		SOUTHEAST REGION
SOUTH ATLANTIC AND GULF:		
Key West	305-294-1921 FAX: SAME	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O.Box 269, Key West, FL 33040
Fort Myers	941-334-4364 FAX: SAME	Tom Herbert, 2000 Main St., Suite 409 Fort Myers, FL 33901
St. Petersburg	727-570-5393 FAX:570-5300	Renee Roman / Greg Fairclough, 9721 Executive Center Dr., St. Petersburg, FL 3370
Panama City	850-234-6541 FAX:235-3558	Deborah Fable / June Weeks, 3500 Delwood Beach Rd., Panama City, FL 32407
Mobile	334-441-6193 FAX: SAME	Ted Flowers, U.S.Coast Guard - ATC, P.O. Box 97, Mobile, AL 36608
Pascagoula	228-762-7402 FAX:769-9200	Rene Labadens / Charles Armstrong, 3209 Frederic St., P.O. Box Drawer 120 Pascagoula, MS 39567
Chalmette	504-277-0365 FAX:271-9150	Maggie Bourgeois / Jay Boulet, 2626 Charles Dr., Suirte 201, Chalmette, LA 70043
Golden Meadow	504-632-4324 FAX: SAME	Gary J. Rousse, 290 E. 57th St. (Cutoff, LA 70345), P.O.Box 623, Golden Meadow, LA 70357
Houma	504-872-3321 FAX: SAME	Kathleen Hebert, 425 Lafayette St., Rm. 128, Houma, LA 70360
	504-872-1403 FAX: SAME	Billy Ray Tucker, 1340 W. Tunnel Blvd., Suite 222, Houma, LA 70360
Marrero	504-340-5820 FAX: SAME	Jan Simpson, 5201 Westbank Expressway, Suite 312, Marrero, LA 70072
New Iberia	318-365-1558 FAX: SAME	Linda F. Picou, 705-A West Admiral Doyle Dr. New Iberia, LA 70560
New Orleans	504-589-6151 FAX: SAME	Debbie Batiste, 423 Canal St., Rm. 213, New Orleans, LA 70130
Aransas Pass	512-758-1043 FAX: SAME	Roy Spears, 132 Cleveland Blvd., P.O. Box 1815, Aransas Pass, TX 78336
Brownsville/ Port Isabel	210-548-2516 FAX: SAME	Kit Doncaster / Edie Lopez, Shrimp Turning Basin, HC 70 Box 15, Brownville, TX 78521
Freeport	409-233-4551 FAX: SAME	Thomas R. Mauermann, Texas Gulf Bank, Suite 213, P.O.Box 2533, Freeport, TX 77542
(1)Galveston	**409-766-3705 FAX:766-3543**	**Margot Hightower or W. Keith Roberts, 4700 Avenue U, Bldg. 306 Galveston, TX 77551**
Port Arthur	409-727-2271 FAX: SAME	Linda S. Trahan, Federal Bldg., Rm. 113, 2875 Jimmy Johnson Blvd., Port Arthur, TX 77640
		SOUTHWEST REGION
(1)Long Beach, CA or Honolulu, HI	**562-980-4033 FAX:980-4047**	**Patricia J. Donley, 501 West Ocean Boulevard, Rm. 4200, P.O. Box 32469, Long Beach, CA 90832**
		NORTHWEST REGION
(1)Seattle	**206-526-6119 FAX:526-4461**	**John K. Bishop, 7600 Sand Point Way, NE, Bldg. 1, BIN C 15700, Seattle, WA 98115**
		ALASKA REGION
(1)Juneau	**907-586-7323 FAX:586-7465**	**David Ham, Federal Building, 4th Floor, 709 West 9th St., P.O. Box 21668, Juneau, AK 99802**

(1) Regional or area headquarters for statistics offices.

LIBRARY INFORMATION

The NOAA Library and Information Network Catalog (NOAALINC) is an integrated library system available on the Internet at www.lib.noaa.gov. NOAALINC represents the library holdings of the NOAA Central Library in Silver Spring, Maryland and 27 other NOAA libraries located nationwide. Currently, the NOAALINC contains over 230,000 items with 10,000-15,000 added each year.

NOAALINC provides several search methods to locate records of items. Users can search for keywords in titles, subject headings, authors, or series. Users can browse indexes of titles, subject headings, authors, series, or call number. Each bibliographic record shows a brief description of the item with a list of which libraries hold the item. The list of libraries will show the call number, item's specific information, and whether the item is available for circulation.

NOAALINC is available to anyone, without restriction, 24 hours a day, every day of the year. Visitors to the NOAA Central Library can also access the catalog thru workstations located throughout the Library. Remote users can access the catalog thru a link from the NOAA Central Library's homepage at - http://www.lib.noaa.gov/.

NOAA personnel may contact the nearest NOAA Library or the NOAA Central Library and arrange to borrow materials. Members of the general public should contact their local library to arrange for an interlibrary loan.

For further information contact the NOAA Central Library, 1315 East-West Highway, 2nd Floor, Silver Spring, MD 20910-3282. Telephone: 301-713-2607 (Ext. 124) or E-mail: reference@nodc.noaa.gov.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

STATISTICAL REPORTS

003-020-00169-6 Fisheries of the United States, 1997 . . ..$16.00

003-020-00170-0 Fisheries of the United States, 1998 . . .NA

MISCELLANEOUS REPORTS

003-009-00618-0 United States Industrial Outlook 1993: Business Forecasts for 350 Industries . . .$37.00

003-009-00635-0 United States Industrial Outlook 1994: Business Forecasts for 350 Industries . . .$48.00

003-009-00650-3 United States Industrial Outlook 1995: Business Forecasts for 350 Industries . . .$19.00

003-009-00650-3 U.S. Global Outlook (Name change) 1995: Business Forecasts for 350 Industries...$20.00

S/N 703-023-00000-2 (FB) 2D Fishery Bulletin (Quarterly): Publishes Original Research Papers, etc. $32.00 a year

For information or to purchase publications listed above (Advance Payment Required), call or write:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20202
PHONE: 202-512-1800 / FAX: 512-2250

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE AND NATIONAL TECHNICAL INFORMATION SERVICE (NTIS) U.S. DEPARTMENT OF COMMERCE

SCIENTIFIC PUBLICATIONS:

Information on formal scientific publications by NMFS (such as NMFS journals and technical publications) may be obtained from the Scientific Publications Office (F/ST21), 7600 Sand Point Way, N.E., BIN C-15700, Seattle, WA 98115.

Telephone: 206-526-6107

CURRENT FISHERY STATISTICS (CFS) SERIES:

The reports listed below are in the Current Fisheries Statistics (CFS) series. They are statistical bulletins on marine recreational fishing, commercial fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics and Economics Division (F/ST1)
1315 East-West Highway - Station 12340
Silver Spring, MD 20910
Telephone: 301-713-2328

The bulletins shown below cover freezings and holdings prior to 1997 and holdings only for 1997 and the U.S. foreign trade in fishery products. If you wish a copy of the following publications, check the designated space ( ) and return to the Office indicated above. The following are available annually:

( ) FF - Frozen Fishery Products (Annual)
( ) FT - Imports and Exports of Fishery Products (Annual)

OTHER PUBLICATIONS:

All publications listed below may be obtained from NTIS (address and phone number listed on page 116), the originating office (code follows in parentheses), or the appropriate homepage. Copies are available only as long as supply lasts.

( ) A Guide to Tunas of the Western Atlantic Ocean, NMFS, 1997. 18 p. (SF)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1995 Executive Summary. (F/ST)

( ) Our Living Oceans - Report on The Status of U.S. Living Marine Resources, 1998. (F/ST)

( ) Our Living Oceans - Report on The Economic Status of U.S. Fisheries, 1996. (F/ST)

( ) Protecting and Restoring Essential Fish Habitat. (F/HC)

( ) Report on Apportionments of Membership on the Regional Fishery Management Council (RFMCs) in 1997. (F/SF)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants (F/SF)

( ) The Saltonstall-Kennedy Grant Program: Fisheries Development and Utilization Research and Development Grants - Annotated Bibliography (F/SF)

( ) USDC Approved List of Fish Establishments and Products -- Semi-Annual Report. (Documentation Approval and Supply Service, Pascagoula, MS., Phone: 228-762-1892)

Atlantic Striped Bass Research Study: Socio-economic Benefits of the Striped Bass Resource. Report to Congress. National Marine Fisheries Service and U.S. Fish and Wildlife Service, 1998. Silver Spring, Maryland. 15 p. (Fx2)

Protecting Marine Mammals: Look from a Distance... but Don't Touch, Feed or Harm in the Wild. Prepared by the Texas Sea Grant Program for the Office of Protected Resources, NMFS, 1992. 6 p. (F/PR)

Recovery Plan for U.S. Pacific Population of the East Pacific Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of the Green Turtle (*Chelonia mydas*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for U.S. Pacific Population of Hawksbill Turtle (*Eretmocheys imbricata*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Leatherback Turtle (*Dermochelys coriacea*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD (F/PR)

Recovery Plan for U.S. Pacific Population of the Loggerhead Turtle (*Chelonia caretta*). National Marine Fisheries Service and U.S. Fish and Wildlife Service. 1998. Silver Spring, MD. (F/PR)

Recovery Plan for the Olive Ridley Turtle (*Lepidochelys olivacea*). National Marine Fisheries Service and the U.S. Fish and Wildlife Service, 1998. Silver Spring, MD (F/PR)

Report to Congress on Status of Fisheries of the United States. National Marine Fisheries Service. October 1998. (SFA homepage)

COMMERCIAL FISHERIES:

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products. The following reports are available through NTIS.

Year	Accession No.
1966	COM-75-10662
1967	COM-75-10663
1968	COM-75-10664
1969	COM-75-10665
1970	COM-71-50081
1971	COM-75-10666
1972	COM-73-50644
1973	COM-74-50546
1974	COM-75-10862
1975	PB-253966
1976	PB-268662
1977	PB-282741
1978	PB-297083
1979	PB-80-201593
1980	PB-81-241648
1981	PB-82-215542
1982	PB-83-216473
1983	PB-84-195148
1984	PB-86-144953
1985	PB-87-143145
1986	PB-88-164132
1987	PB-88-215173
1988	PB-89-216485
1989	PB-91-129-320
1990	PB-92-174523/AS
1991	PB-93-204536/AS
1992	PB-94-156387
1993	PB-95-219192

Fisheries Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than *Fisheries of the United States.*

Year	Accession No.
1939	COM-75-11265
1940	COM-75-11266
1941	COM-75-11267
1942	COM-75-11268
1943	COM-75-11269
1944	COM-75-11270
1945	COM-75-11271
1946	COM-75-11272
1947	COM-75-11273
1948	COM-75-11274
1949	COM-75-11275
1950	COM-75-11056
1951	COM-75-11053
1952	COM-75-11054
1953	COM-75-11055
1954	COM-75-11057
1955	COM-75-11058
1956	COM-75-11059
1957	COM-75-11060
1958	COM-75-11061
1959	COM-75-11062
1960	COM-75-11063
1961	COM-75-11064
1962	COM-75-11065
1963	COM-75-11066
1964	COM-75-11067
1965	COM-75-11068
1966	PB-246429
1967	PB-246430
1968	COM-72-50249
1969	COM-75-10887
1970	COM-75-10643
1971	COM-74-51227
1972	COM-75-11430
1973	PB-262058
1974	PB-277796
1975	PB-300625
1976	PB-81-163438
1977	PB-84-192038

***STATE LANDINGS*:**

Maine: 1946-76, PB-271-296; 1977-79, PB-128258.

Massachusetts: 1943-76, PB-275866; 1977-79, PB-81-143182.

Rhode Island: 1954-77; PB-287627; 1978-79, PB-81-157158.

New York: 1954-76, PB-275449; 1977-79, PB-81-134546.

New Jersey: 1952-76, PB-275696; 1977-79, PB-81-159048

Maryland: 1960-76, PB-300636; 1977-79, PB-81-159003.

Virginia: 1960-76, PB-300637; 1977-79, PB-82-151960.

North Carolina: 1955-76, PB-288928; 1977-79, PB-82-151978.

South Carolina: 1957-76, PB-289405; 1977-79, PB-81-163198.

Georgia: 1956-76, PB-289814; 1977-79, PB-81-157166.

Florida: 1950-76, PB-292068.

Alabama: 1950-77, PB-80-121262; 1978, PB-82-168071.

Mississippi: 1951-77, PB-80-121270; 1978, PB-82-169079.

Louisiana: 1957-77, PB-300583; 1978, PB-82-168063.

Texas: 1949-77, PB-300603; 1978-79, PB-82-169004.

Shrimp Landings: 1956-76, PB-80-124696; 1978-79, PB-82-156183.

Gulf Coast Shrimp Data: 1958-76, PB-80-126899; 1978-79, PB-82-170390.

INTERNATIONAL REPORTS:

The Division of International Science and Technology, NMFS, prepares assessments of major fisheries to support priority NMFS programs. These reports may be of interest to the wider fishery community as they include biological, commercial, and technical information of potential use to academicians, industry, and environmentalists.

Swordfish:

In 1997 work was completed on a six-volume study, culminating a two-year research project to compile and analyze information on every key swordfish catching nation in the world. *World Swordfish Fisheries*, is the most comprehensive documentation of this fishery ever produced. Each volume of the study contains information on catch, fishing grounds, fishing fleets, gear and methods, markets, trade, bycatch, research, international relations, and other facets of the fishery. The books are carefully documented and have extensive statistical appendices, graphics, and photographic images to help explain the fishery and illustrate key trends. Work on the swordfish fisheries of the Atlantic States of Latin America is ongoing with major reports schedules for release in 1999.

World Swordfish Fisheries: An Analysis of Swordfish Fisheries, Market Trends, and Trade Patterns, Past-Present-Future. Complete six-volume set. (NTIS No. PB-98-123414/GBA).

Volume I: Executive Overview. Summary of World Fisheries for Swordfish and Overview of Global and Regional Trends. 53 p. (NTIS No.PB-98-123425/GBA).

Volume II: Africa and the Middle East. Examination of Fisheries and Overview of Regional Trends in Africa and in Select Middle Eastern countries. 235 p. (NTIS No.PB-98-123433/GBA).

Volume III: Asia. Summary of Asian Fisheries and Overview of Regional Trends. Special Coverage of Japan, Korea, and Taiwan. 144 p. (NTIS No. PB-98-123441/GBA).

Volume IV: Latin America. Summary of Swordfish Fisheries, along the Pacific Coast of South America. Both volumes 843 p. Further individual country reports are planned for 1998.

Part A., Section 1, Segment A. Covers Fisheries of Colombia, Ecuador, and Peru (428 p.) (NTIS No.PB-98-123458/GBA).

Segment B. Provides in-depth Information about Chile (415 p.) (NTIS No.PB-98-123466/GBA).

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Volume VI: Western Europe. Examination of European fisheries with special emphasis on the European Union member states (especially Spain, Italy, Greece and France). Non-EU countries are also considered. 324 p. (NTIS No .PB-98-123482/GBA).

World Fleet:

The Office of International Affairs, NMFS, prepared a six-volume study which analyzed trends in the world's distant-water fishing fleets. The subjects covered included catch, fishing areas, vessel construction and imports, flag-of-convenience registration, international agreements, and joint ventures.

World fishing Fleets: An Analysis of Distant-water Fleet Operations. Complete six-volume set. (NTIS No. PB-94-140811/GBA).

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Volume VI: Western Europe and Canada. Overview sections for Europe Community and non-EC countries and individual country studies for all West European fishing nations and Canada. 362 p. (NTIS No. PB-94-140878/GBA).

World Shrimp and Salmon Culture Study:

A detailed overview of the salmon and shrimp culture industries in each of the primary producing countries of the world. The reports include information on species, areas developed, companies and farms, hatcheries, culture methods, research, harvests, exports, investments, environmental factors, trade, feed, and other subjects. The study was completed in 1992.

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Part III: This book includes a brief regional summary of shrimp culture in South America and individual reports on the shrimp culture industry of each South American country. 329 p. (NTIS No. PB93-134666/GBA).

NORTHEAST REGION:

Northwest Atlantic Groundfish: Perspectives on a Fishery Collapse. Boreman, J., B.S, Nakashima, J.A. Wilson, and R.L. Kendall, eds. 1997. American Fisheries Society, Bethesda, MD. 242p. (F/NEC).

Status of Fishery Resources off the Northeastern United States for 1998. S.H. Clark, ed. 1998. (NOAA-TM-. NMFS-NE-115). 149 p.. (F/NEC).

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Habitat Protection Accomplishments of the National Marine Fisheries Service - Fiscal Year 1996. Habitat Conservation Division, Southeast Regional Office. 1996. 88 p.+Appen. (F/SER).

SOUTHWEST REGION:

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Dolphin Prey Abundance Determined from Acoustic Backscatter Data in Eastern Pacific Surveys. Fiedler, P. C., J. Barlow, and T. Gerrodette. 1998. Fish. Bull., U.S. 96:237-247. (F/SWC)

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Status Review of Pink Salmon from Washington, Oregon, and California. Hard, J.J., R.G. Kope, W.S. Grant, F.W. Waknitz, L.T. Parker, and R.S. Waples. 1996. (NOAA-TM-NMFS-NWFSC-25) 131 p. (NTIS No. PB96-162607)

Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. Busby, P.J., T.C. Wainwright, G.J. Bryant, L. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. (NOAA-TM-NMFS-NWFSC-27) 261 p. (NTIS No. PB96-210166).

ALASKA REGION:

Aerial and Ship-based Surveys of Steller Sea Lions (Eumetopias jubatus) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994. Strick, J. M., L. W. Fritz, and J. P. Lewis. 1997. (NOAA-TM-AFSC-71). 55 p. (NTIS No. PB97-144026).

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We will make other fishery landings, vessel, fishing gear and other information available to users as time permits.

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NATIONAL MARINE FISHERIES SERVICE
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Fisheries Statistics - http://www.st.nmfs.gov/st1/. Descriptions of commercial and recreational fisheries statistics data collection programs. Access to commercial monthly landings data bases, Marine Recreational Fisheries Statistics Survey (MRFSS) data, cold storage, Market News Reports, processed products data, and trade data base.

Inspection Program- http://seafood.nmfs.gov/. Provides information on the National Voluntary Seafood Inspection Program, list of approved fish establishments and products, fees and charges, and policies for advertising services and marks.

Saltonstall-Kennedy Grant Program - http://www.nmfs.gov/sfweb/skhome.html. Description of the Saltonstall-Kennedy (S-K) Program, the most recent solicitation for proposals, application forms and instructions, FAQs, and Regional contacts for the S-K Program, as well as the latest update to the S-K Annotated Bibliography of completed projects.

Protected Resources - http://nmfs.gov/prot_res/prot_res.html. Contains recovery efforts for species considered endangered or threatened; depleted species of marine mammals; and a comprehensive list of other Internet resources pertaining to protection programs and other issues. Information on Endangered Species Act and Marine Mammal Protection Act.

Northeast Region - http://www.nero.nmfs.gov/doc/nero.html. Describes the mission and responsibilities of the Regional Office Staffs and Divisions. Provides information on fisheries regulations, quota reports for summer flounder, and links to other NOAA sites.

Northeast Fisheries Scientific Center - http://www.nefsc.nmfs.gov. Provides current and historical northeast fisheries information and data about research facilities, vessels, programs, publications, management, laws and regulations, and answers to frequently asked questions on fish and fisheries research. Features in-depth information on northeast stock status and realtime, at-sea, display of research vessel activities, measurements, and observations.

Southeast Region - http://caldera.sero.nmfs.gov/. Provides information on regional Federal activities including: fisheries regulations, vessel and dealer permits, fishery management plan implementation/quotas, marine mammals and endangered species management and protection, habitat protection and restoration activities, and federal aid programs for grants and cooperative agreements.

NATIONAL MARINE FISHERIES SERVICE
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HOME PAGES

Southeast Fisheries Science Center - http://www.sefsc.noaa.gov/. Describes the mission of the Center in support of NMFS including laboratories dedicated to research covering North Carolina--Texas and the Caribbean. Provides research data to support the programs which include large marine ecosystem, collecting and reporting statistical/economic data, fishery resource conservation, protection of marine mammals and endangered species, and impact analysis / environmental assessments.

Alaska Region - http://www.fak.noaa.gov/. Provides information on in season state of groundfish, catch statistics, new releases, regulations, maps, and tables. Sablefish and halibut quota program, catch data and appeal cases. Information on Marine Mammal Authorization Program.

Alaska Fisheries Science Center - http://www.afsc.noaa.gov/. Describes the mission of the Center and the organization and purpose of its laboratories, divisions, and programs dedicated to Federal fisheries research in the coastal oceans off Alaska and the West Coast of the United States and marine mammal research in the Antarctic, Arctic, Alaska and California current ecosystems.

Northwest Fisheries Science Center - http://research.nwfsc.noaa.gov/nwfsc-homepage.html. Describes Center research, including status and recovery of endangered salmon and new hatchery-rearing techniques; rapid-response analyses of chemical pollution and harmful algal blooms in fishery grounds nationwide; assessing the west coast groundfish fishery; and developing new bycatch utilization technologies. News topics, current publications, library resources, and the Center's state-of-the-art water-recycling fish culture facility are also featured.

Southwest Region - http://swr.ucsd.edu/. Described the mission and responsibilities of the regional office and announcements of Federal Register Notices on seasons, trip limits, and quotas. Provides information on fisheries statistics, trade data, canned tuna updates and status of tuna import quotas, and catch reports for various California fisheries. Japanese market reports are available on sablefish, shrimp, landings and wholesale prices, etc., and links to other pertinent sites of interest to fishery and seafood industries.

Southwest Fisheries Science Center - http://swfsc.ucsd.edu/. Descriptions of programs, laboratories, geographic scope, center organization, research vessels, upper level scientific/management staffs, publications, newsletters (tuna and billfish), and mission of the Center. Information on types of research being conducted on fishes, marine mammal, sea turtles, habitat and marine ecosystems. Also, updated NOAA's Resource Guide for Teachers of Marine Science is available for download.

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NOAA Public Affairs - http://www.publicaffairs.noaa.gov/. All NOAA and NMFS related Press Releases and links to other NOAA material available to the public. If you would like these releases through electronic mail rather than fax, send e-mail to jslaff@hq.noaa.gov.

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	BOSTON: Jack French (617) 223-8018	
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31*	New England Auction	Daily
32*	Boston Frozen Market Prices	Wednesday
33	New England Auction Summary	Friday
34	New England Cold Storage	Friday
	NEW ORLEANS: Maggie Bourgeois (504) 589-6151	
41	Gulf Shrimp Landings by Area and Species	Monday
42	Ex-Vessel Gulf Fresh Shrimp Prices and Landings	Monday
43	Gulf Finfish and Shellfish Landings	Monday
44*	Fish Meal and Oil Prices	Thursday
45*	Shrimp Statistics	Monthly
	LONG BEACH: Patricia Donley (310) 980-4033	
52	San Pedro, CA Market Prices	Friday
53	Canned Tuna Import Quota Update	Friday
	SEATTLE: John Bishop (206) 526-6119	
61	Wholesale Canned Salmon Prices (West Coast)	Tuesday
62*	Wholesale Shellfish Prices (West Coast)	Tuesday
63	Preliminary Oregon Landings	Tuesday
64	Halibut & Sablefish Total IFQ Landings	Weekly
65	Groundfish: Gulf of Alaska - Preliminary Catch	Weekly
66	Groundfish: Bering Sea & Aleutians - Preliminary Catch	Weekly
67	Oregon Landings & Exvessel Price	Monthly
68	Washington Landngs & Exvessel Price	Monthly
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71*	National Cold Storage	Monthly
72	West Coast Cold Storage	Monthly
74*	Imports of Shrimp	Monthly
75*	Imports of Frozen Fish Blocks	Monthly
76*	Fish Meal and Oil Production	Quarterly
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81	Japanese Shrimp Imports	Monthly
82	Japanese Fishery Imports	Monthly
83	Japanese Fishery Exports	Monthly
84	Japanese Cold Storage Holdings	Monthly
85	Tokyo Wholesale Shrimp Prices	Bi-weekly
86	Tokyo Wholesale Prices	Bi-weekly
87	Fish Landings and Average Ex-vessel Prices	Monthly
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(352) 392-1837 FAX: 392-5113

Keith Gates, Extension Leader
Georgia Sea Grant College Program
715 Bay Street
Brunswick, GA 31520
(912) 264-7268 FAX: 264-7312

Bruce J. Miller, Assoc. Dir.
Director, Extension / Pacific Programs,
Sea Grant Extension Service, Univ. of HI
1000 Pope Road, MSB 227
Honolulu, HI 96822
(808) 956-8645 FAX: 956-2858

Brian Miller, Extension Leader
Illinois/Indiana Sea Grant Program
Forestry & Natural Resources
Purdue University - Forestry Bldg.
West Lafayette, IN 47907
(912) 264-7268 FAX: 264-7312

Michael Liffman, Assist. Dir.
Lousiana Sea Grant College Program
Louisiana State University
136 Wetland Resources Building
Baton Rouge, LA 70803
(504) 388-6290 FAX: 388-6331

Ron Beard, Extension Leader
Maine Sea Grant College Program
21 Coburn Hall, Univ. Of ME
Orono, ME 04469
(207) 581-1440 FAX: 581-1423

Douglas Lipton, Extension Leader
Maryland Sea Grant College Program
2218B Symons Hall - Univ. of MD
College Park, MD 20742
(301) 405-1280 FAX: 314-9032

Cliff Goudey, Extension Leader
MIT Sea Grant College Program
E38-324 / Kendall Square
292 Main Street
Cambridge, MA 02139
(617) 253-7079 FAX: 258-5730

Dale Leavitt, Extension Leader
WHOI Sea Grant Program
Mail Stop #2, Coastal Research Lab.
Woods Hole Oceanographic Institute
Woods Hole, MA 02543
(508) 289-2997 FAX: 457-2172

John Schwartz, Extension Leader
Michigan Sea Grant College Prog.
Michigan State University
334 Natural Resource Building
East Lansing, MI 48824
(517) 355-9637 FAX: 353-6496

SEA GRANT EXTENSION SERVICE

Jeffery Gunderson, Extension Leader
Minnesota Sea Grant
University of Minnesota - Duluth
208 Washburn Hall
Duluth, MN 55812
(218) 726-8715 FAX: 726-6556

David C. Veal, Extension Leader
Mississippi Sea Grant
Coastal Research/Extension Center
2710 Beach Blvd., Suite 1-E
Biloxi, MS 39531
(601) 338-4710 FAX: 388-1375

Brian E. Doyle, Extension Leader
New Hampshire Sea Grant
University of NH - Kingman Farm
Durham, NH 03824
(603) 749-1565 FAX: 743-3997

Eleanor Bochenek, Extension Leader
New Jersey Sea Grant College Program
Building #22
Fort Hancock, NJ 07732
(732) 872-1300 ext:31 FAX:872-9573

Dale R. Baker, Extension Leader
New York Sea Grant
340 Roberts Hall - Cornell Univ.
Ithaca, NY 14853
(607) 255-2832 FAX: 255-2812

Frank Lichtkoppler, Co-Leader
Ohio Sea Grand Extension
Lake County Extension Office
99 East Erie Street
Painesville, OH 44077
(216) 350-2582 FAX: 350-5928

Frederic L. Snyder, Co-Leader
Ohio Sea Grant Extension
Camp Perry
Building 3, Room 12
Port Clinton, OH 43452
(419) 635-4117 FAX: 292-4364

Eric C. Obert, Coordinator
Pennsylvania Sea Grant Extension Project
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Steve Olson, Extension Leader
Sea Grant - North Carolina State Univ.
105 1911 Building - Box 8605
Raleigh, NC 27695
(919) 515-2454 FAX 515-7095

Jay Rasmussen, Program Leader
Oregon Extension Sea Grant
Hatfield Marine Science Center
2030 S. Marine Science Drive
Newport, OR 97365
(541) 867-0368 FAX: 867-0369

Eric C.Obert, Extension Leader
Pennsylvania Sea Grant College Program
Station Road
Erie, PA 16563
(814) 898-6420 FAX: 898-6462

Ruperto Chaparro, Extension Leader
Sea Grant College Program
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
(787) 832-8045 FAX: 265-2880

Kathy Castro, Extension Coordinator
Rhode Island Sea Grant Extension
Graduate School of Oceanography
South Ferry Road, Univ. of Rhode Island
Narragansett, RI 02882
(401) 874-6800 FAX: 789-8340

Bob Bacon, Extension Leader
South Carolina Sea Grant
Marine Extension Program
287 Meeting Street
Charleston, SC 29401
(803) 727-2075 FAX: 727-2080

Russell Miget, Acting Extension Coordinator
Texas Sea Grant College Program
6300 Ocean Drive, Suite 280
Corpus Christi, TX 78412
(512) 980-3460 FAX: 980-3465

Lawrence K. Forcier, Coordinator
Vermont Sea Grant Extension Project
University of Vermong
601 Main Street
Burlington, VT 05401
(802) 656-2980 FAX: 656-8642

Wm. D. DuPaul, Extension/MAP Coordinator
Virginia Sea Grant College Program - VIMS
Gloucester Point, VA 23062
(804) 684-7164 FAX: 684-7161

Michael S. Spranger, Extension Leader
Washington Sea Grant HG-30 - WA Univ.
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105
(206) 685-9291 FAX: 685-0380

Allen H. Miller, Extension/MAS Leader
Wisconsin Sea Grant Institute - WS Univ.
201 Goodnight Hall - Madison Campus
1975 Willow Drive
Madison, WI 53706
(608) 262-0644 FAX: 263-0591

National Sea Grant Depository
(Clearinghouse for all Sea Grant Publications)
Pell Library - University of Rhode Island - Bay Campus
Narragansett, RI 02882
PHONE: 401-874-6114
FAX: 874-6160

GLOSSARY

ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

AQUACULTURE. The farming of aquatic organisms in marine, brackish or fresh water. Farming implies private or corporate ownership of the organism and enhancement of production by stocking, feeding, providing protection from predators, or other management measures. Aquaculture production is reported as the weight and value of cultured organisms at their point of final sale.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed, (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

DEFLATED VALUE. The deflated values referred to in this document are calculated with the Gross Domestic Products Implicit Price Deflator. The base year for this index is 1987.

EDIBLE WEIGHT. The weight of a seafood item exclusive of bones, offal, etc.

EEZ. See U.S. Exclusive Economic Zone.

EL NINO. This anomalous ocean warming of the eastern Equatorial Pacific occurs at time intervals varying from 2-10 years. El Nino conditions result in an accumulation of warm water off South America which reduced the upwelling of nutrient-rich water necessary to support fisheries production. These conditions extended northward to the U.S. Pacific Coast. In addition to affecting the food available for fish, El Nino appears to alter the normal ranges, distributions, and migrations of fish populations.

EUROPEAN UNION. Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom. This was formerly known as European Economic Community (EEC).

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance, and other charges or transportation cost beyond the port of exportation.

EXPORT WEIGHT. The weight of individual products as exported, i.e., fillets, steaks, whole, breaded. etc. Includes both domestic and foreign re-exports data.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or of a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next largest dimension. A fish stick is generally cut from a fish block.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottom fishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In "Fisheries of the United States," the term applies to the following species--Atlantic and Pacific: cod, hake, ocean perch, and pollock; cusk; and haddock.

IMPORT VALUE. Value of imports as appraised by the U.S. Customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as received, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNAL WATER PROCESSING (IWPs). An operation in which a foreign vessel is authorized by the governor of a state to receive and process fish in the internal waters of a state. The Magnuson Act refers to internal waters as all waters within the boundaries of a state except those seaward of the baseline from which the territorial sea is measured.

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a foreign vessel is authorized to receive fish from U.S. fishermen in the U.S. EEZ. The fish received from the U.S. vessel are part of the U.S. harvest

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson Act provides a national program for the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - Fishery Conservation Zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish, and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels. This definition is used in the NMFS Marine Recreational Fishery Statistics Survey, and is not intended to represent a NMFS policy on the sale of angler-caught fish.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations' fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RE-EXPORTS. Re-exports are commodities which have entered the U.S. as imports and are subsequently exported in substantially the same condition as when originally imported.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products, both edible and nonedible, on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks for Fishery Products

NATIONAL FISHERY PRODUCTS INSPECTION PROGRAM. The U.S. Department of Commerce (USDC), National Marine Fisheries Service, a part of the National Oceanic and Atmospheric Administration, conducts a voluntary seafood inspection program on a fee-for-service basis. A HACCP-based service is also available. Services provided by the program include vessel and plant sanitation, product inspection and grading, label reviews, product specification reviews, laboratory analyses, training, education and information. Inspection and certification services are available nationwide and in U.S. territories for all interested parties. Consultative services are provided in foreign countries. Inspection and certification services are also provided for imported and exported products. The USDC Seafood Inspection Division also provides HACCP training, plan development, implementation assistance, and verification service to industry (domestic and foreign) for the purpose of demonstrating compliance with FDA's HACCP rule (21 CFR Parts 123 and 1240) regarding "Procedures for the Safe and Sanitary Processing and Importing of Fish and Fishery Products" which was implemented December 18, 1997.

USERS OF INSPECTION SERVICES. The users of the voluntary seafood inspection service include vessel owners, processors, distributors, brokers, retailers, food service operators, exporters, importers, and those who have a financial interest in buying and selling seafood products. The U.S. Department of Agriculture recommends that USDC inspected products be purchased for its food feeding programs. The **USDC APPROVED LIST OF FISH ESTABLISHMENTS AND PRODUCTS**, published bi-annually, provides a listing of products and participants who contract with USDC.

USDC INSPECTION MARKS. These marks designate the level and the type of inspection performed by the federal inspector. The marks can be used in advertising and labeling under the guidelines provided by the Seafood Inspection Division and in accordance with federal and state regulations regarding advertising and labeling. Products bearing the USDC official marks have been certified as being safe, wholesome, and properly labeled.

"US GRADE A" MARK. The U.S. GRADE A mark signifies that a product has been processed under federal inspection in an approved facility and meets the established level of quality of an existing U.S. grade standard. The U.S. Grade A mark indicates that the product is of high quality, uniform in size, practically free from blemishes and defects, in excellent condition and possessing good flavor and odor.

"PROCESSED UNDER FEDERAL INSPECTION" MARK. The PUFI mark or statement signifies that the product has been inspected in an approved facility and was found to be safe, wholesome and properly labeled according to approved specifications or criteria. The language within the PUFI mark has been amended to "Processed Under Federal Inspection" to reflect actual inspection procedures and the regulatory requirements for use of the mark.

"LOT INSPECTED" MARK. A new USDC Lot Inspected mark was created to replace the "Officially Sampled" and "Accepted Per Specifications" lot inspection marks used on retail labels. The latter marks were no longer allowed/accepted after September 30, 1997. The use of the new mark meets the needs of both industry and consumers by conveying that the products bearing the mark have been examined by the USDC Program.

"RETAIL" MARK. In response to requests made by industry, a new mark has been created for retail or food service establishments. Participants qualify for use of the "Retail Mark" by receiving the USDC HACCP-based service or being under contract for sanitation services and associated product evaluation. Usage of such a mark will give the retail industry the opportunity to advertise on their banners, logos, or menus that their facility has been recognized by USDC for proper sanitation and handling of fishery products.

USDC HACCP MARK. The USDC HACCP-based service is available to all interested parties on a fee-for-service basis. Label approval, record keeping and analytical testing are program requirements. An industry USDC-certified employee trained in HACCP principles is also required for each facility/site in the program. Compliance ratings determine frequency of official visits. Benefits to participants include increased controls through a more scientific approach, use of established marks, increased efficiency of federal inspection personnel, and enhanced consumer confidence. The USDC has made available a HACCP mark and a "banner" to distinguish products that have been produced under the HACCP-based program. The HACCP banner must be used as an attachment to existing inspection grade marks. Establishments meeting HACCP program requirements may use these marks in conjunction with promotional material, packaging, point-of-sale notices, and menus.

FOR FURTHER INFORMATION:

U.S. Department of Commerce, NOAA/NMFS
Seafood Inspection Division - F/SF6
1315 East-West Highway
Silver Spring, MD 20910
(301) 713-2355 (FAX: 713-1081)
Toll Free: 1-800-422-2750
Internet: http://seafood.ssp.nmfs.gov/iss/issue.html

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service F/RE1
1315 East West Highway
Silver Spring, MD 20910-3282

OFFICIAL BUSINESS